



# DEPARTMENT OF ENVIRONMENTAL QUALITY

KATHLEEN BABINEAUX BLANCO

GOVERNOR

MIKE D. McDANIEL, Ph.D.

SECRETARY

Certified Mail No.:

Agency Interest No. 3263  
Activity No.: PER20020001

Oscar M. Corona  
Operations Group Leader  
Air Products and Chemicals, Inc.  
Post Office Box 1  
St. Gabriel, LA 70776

RE: Part 70 Operating Permit Renewal, St. Gabriel Plant, Air Products and Chemicals, Inc., St. Gabriel, Iberville Parish, Louisiana

Dear Mr. Corona:

This is to inform you that the permit for the above referenced facility has been approved under LAC 33:III.501. The permit is both a state preconstruction and Part 70 Operating Permit. The submittal was approved on the basis of the emissions reported and the approval in no way guarantees the design scheme presented will be capable of controlling the emissions as to the types and quantities stated. A new application must be submitted if the reported emissions are exceeded after operations begin. The synopsis, data sheets and conditions are attached herewith.

It will be considered a violation of the permit if all proposed control measures and/or equipment are not installed and properly operated and maintained as specified in the application.

Operation of this facility is hereby authorized under the terms and conditions of this permit. This authorization shall expire at midnight on the \_\_\_\_\_ of \_\_\_\_\_, 2011, unless a timely and complete renewal application has been submitted six months prior to expiration. Terms and conditions of this permit shall remain in effect until such time as the permitting authority takes final action on the application for permit renewal. The permit number and Agency Interest No. cited above should be referenced in future correspondence regarding this facility.

Done this \_\_\_\_\_ day of \_\_\_\_\_, 2006.

Permit No.: 1280-00031-V2

Sincerely,

*DRAFT*

Chuck Carr Brown, Ph.D.  
Assistant Secretary

CCB:FJH  
cc: EPA Region VI

**ENVIRONMENTAL SERVICES**  
PO BOX 4313, BATON ROUGE, LA 70821-4313  
P:225-219-3181 F:225-219-3309  
[WWW.DEQ.LOUISIANA.GOV](http://WWW.DEQ.LOUISIANA.GOV)

**PUBLIC NOTICE**  
**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY (LDEQ)**  
**AIR PRODUCTS AND CHEMICALS, INC.**  
**ST. GABRIEL PLANT**

**PROPOSED PART 70 AIR OPERATING PERMIT RENEWAL & MODIFICATION**

The LDEQ, Office of Environmental Services, is accepting written comments on Proposed Part 70 Air Operating Permit Renewal and modification for Air Products and Chemicals, Inc., P. O. Box 1, St. Gabriel, LA 70776 for the St. Gabriel Plant. **The facility is located at 3790 Hwy 30, St. Gabriel, Iberville Parish.**

Air Products and Chemicals, Inc, (Air Products) owns and operates the St. Gabriel Plant.

Air Products and Chemical, Inc., requested a renewal for a Part 70 air operating permit for its St. Gabriel Plant. The St. Gabriel Plant currently operates under Permit No. 1280-00031-V1 issued January 4, 2002 .

The proposed updates are as follows:

1. Update emission estimations to improve calculation methodology;
2. Include operational flexibility to Emission Points 4-76, 5-76, 8-76B, 8-76F, 8-76G, 8-76H, and 8-76I to incorporate use of several types of service;
3. Delete a process heater (Emission Point 7-76), a vacuum system vent (Emission Point 2-87), a cooling tower (Emission Point 8-96), and a tank (Emission Point 11-96). These emission sources are no longer in service;
4. Revise EIQ sheets to reflect correct information (i.e. – construction dates, operating rates, etc);
5. Revise the General Condition XVII and Insignificant Activity lists;
6. Rerun tank emission estimations using the latest version of EPA's tank program (TANK4.09d);
7. Consolidate individual wastewater emission sources (Emission Point 1-87, 1-96, 2-96, 3-96, 4-96, 5-96, 6-96, 12-96, and 38-96) as one wastewater emission point unit (Emission Point WW-06). Use EPA's Water 9 program to estimate emissions from this unit;
8. Add startup/shutdown emissions from tank TK-500; and
9. Add the NO<sub>x</sub> Optional Compliance Plan dated May 15, 2006.

Estimated emissions in tons per year are as follows:

Pollutant	Emissions		
	Before	After	Change
PM <sub>10</sub>	10.38	13.92	+ 3.54
SO <sub>2</sub>	0.45	0.48	+ 0.03
NO <sub>x</sub>	105.21	115.84	+ 10.63
CO	26.20	3.32	- 22.88
VOC	53.88	64.70	+ 10.82

A technical review of the working draft of the proposed permit was submitted to the facility representative and the LDEQ Surveillance Division. Any remarks received during the technical review will be addressed in the statement of basis. All remarks received by LDEQ are included in the record that is available for public review.

Written comments, written requests for a public hearing or written requests for notification of the final decision regarding this permit action may be submitted to Ms. Soumaya Ghosn at LDEQ, Public Participation Group,

P.O. Box 4313, Baton Rouge, LA 70821-4313. Written comments and/or written requests must be received by 12:30 p.m., Wednesday, October 25, 2006. Written comments will be considered prior to a final permit decision.

If LDEQ finds a significant degree of public interest, a public hearing will be held. LDEQ will send notification of the final permit decision to the applicant and to each person who has submitted written comments or a written request for notification of the final decision.

The application, proposed Part 70 air operating permit renewal and statement of basis are available for review at the LDEQ, Public Records Center, Room 127, 602 North 5<sup>th</sup> Street, Baton Rouge, LA. Viewing hours are from 8:00 a.m. to 4:30 p.m., Monday through Friday (except holidays). The available information can also be accessed electronically on the Electronic Document Management System (EDMS) on the DEQ public website at [www.deq.louisiana.gov](http://www.deq.louisiana.gov).

Additional copies may be reviewed at Iberville Parish Library-East Iberville Branch, 5715 Monticello Street, St. Gabriel, LA.

Inquiries or requests for additional information regarding this permit action should be directed to Fritz J. Hurst, LDEQ, Air Permits Division, P.O. Box 4313, Baton Rouge, LA 70821-4313, phone (225) 219-3128.

Persons wishing to be included on the LDEQ permit public notice mailing list or for other public participation related questions should contact the Public Participation Group in writing at LDEQ, P.O. Box 4313, Baton Rouge, LA 70821-4313, by email at [maillistrequest@ldeq.org](mailto:maillistrequest@ldeq.org) or contact the LDEQ Customer Service Center at (225) 219-LDEQ (219-5337).

**Permit public notices including electronic access to the proposed permit and statement of basis** can be viewed at the LDEQ permits public notice webpage at [www.deq.state.la.us/news/PubNotice/](http://www.deq.state.la.us/news/PubNotice/) and general information related to the public participation in permitting activities can be viewed at [www.deq.louisiana.gov/portal/tabid/2198/Default.aspx](http://www.deq.louisiana.gov/portal/tabid/2198/Default.aspx).

Alternatively, individuals may elect to receive the permit public notices via email by subscribing to the LDEQ permits public notice List Server at [http://www.state.la.us/ldbc/listservpage/ldeq\\_pn\\_listserv.htm](http://www.state.la.us/ldbc/listservpage/ldeq_pn_listserv.htm).

**All correspondence should specify AI Number 3263, Permit Number 1280-00031-V2, and Activity Number PER20020001.**

Publication date: September 21, 2006

**AIR PERMIT BRIEFING SHEET**  
**PERMITS DIVISION**  
**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**ST. GABRIEL PLANT**  
**AGENCY INTEREST NO.: 3263**  
**AIR PRODUCTS AND CHEMICALS, INC.**  
**ST. GABRIEL, IBERVILLE PARISH, LOUISIANA**

**I. Background**

Air Products and Chemicals, Inc. (Air Products) owns and operates the St. Gabriel Plant located at 3790 Highway 30 in Iberville Parish, Louisiana. Currently, the facility operates under Title V permit 1280-00031-V1, issued January 4, 2002.

**II. Origin**

A permit application and Emission Inventory Questionnaire was submitted by Air Products on January 7, 2002 and a revised application on June 6, 2006 requesting a Part 70 permit renewal.

**III. Description**

The St. Gabriel Plant is designed to manufacture higher alkylamines from ammonia and appropriate alcohols via two continuous process trains that each produces separate types of alkylamines. Each train is divided into a reaction and distillation operation. In the reaction operation, the raw materials are vaporized, reacted in the gas phase over fixed beds of catalysts, and cooled to separate non-condensable by-products. In the distillation process, the desired amine product is separated from unreacted raw material and light and heavy by-products.

The proposed updates are as follows:

1. Update emission estimations to improve calculation methodology;
2. Include operational flexibility to Emission Points 4-76, 5-76, 8-76B, 8-76F, 8-76G, 8-76H, and 8-76I to incorporate use of several types of service;
3. Delete a process heater (Emission Point 7-76), a vacuum system vent (Emission Point 2-87), a cooling tower (Emission Point 8-96), and a tank (Emission Point 11-96). These emission sources are no longer in service;
4. Revise EIQ sheets to reflect correct information (i.e. – construction dates, operating rates, etc);
5. Revise the General Condition XVII and Insignificant Activity lists;
6. Rerun tank emission estimations using the latest version of EPA's tank program (TANK4.09d);
7. Consolidate individual wastewater emission sources (Emission Point 1-87, 1-96, 2-96, 3-96, 4-96, 5-96, 6-96, 12-96, and 38-96) as one wastewater emission point unit (Emission Point WW-06). Use EPA's Water 9 program to estimate emissions from this unit;
8. Add startup/shutdown emissions from tank TK-500; and
9. Add the NO<sub>x</sub> Optional Compliance Plan dated May 15, 2006.

**AIR PERMIT BRIEFING SHEET  
PERMITS DIVISION  
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**ST. GABRIEL PLANT  
AGENCY INTEREST NO.: 3263  
AIR PRODUCTS AND CHEMICALS, INC.  
ST. GABRIEL, IBERVILLE PARISH, LOUISIANA**

Estimated emissions in tons per year are as follows:

<u>Pollutant</u>	<u>Emissions</u>		
	<u>Before</u>	<u>After</u>	<u>Change</u>
PM <sub>10</sub>	10.38	13.92	+ 3.54
SO <sub>2</sub>	0.45	0.48	+ 0.03
NO <sub>x</sub>	105.21	115.84	+ 10.63
CO	26.20	3.32	- 22.88
VOC	53.88	64.70	+ 10.82

Chapter 51 Toxic Air Pollutants (TAPs):

<u>Pollutant</u>	<u>Before</u>	<u>After</u>	<u>Change</u>
Ammonia	9.01	9.69	+ 0.68
Acetaldehyde	-	0.21	+ 0.21
Chlorine	0.01	0.01	-
Ethylene Glycol	-	0.70	+ 0.70
Ethylene Oxide	-	<0.01	< 0.01
Sulfuric Acid	<0.001	<0.001	-
Triethylamine	5.09	3.97	- 1.12
Total	14.11	14.58	+ 0.47

**IV. Type of Review**

This permit was reviewed for compliance with 40 CFR 70, the Louisiana Air Quality Regulations, New Source Performance Standards (NSPS). NESHAP and Prevention of Significant Deterioration do not apply.

This facility is a minor source of toxic air pollutants (TAPs) pursuant to LAC 33:III.Chapter 51.

**AIR PERMIT BRIEFING SHEET  
PERMITS DIVISION  
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**ST. GABRIEL PLANT  
AGENCY INTEREST NO.: 3263  
AIR PRODUCTS AND CHEMICALS, INC.  
ST. GABRIEL, IBERVILLE PARISH, LOUISIANA**

**V. Credible Evidence**

Notwithstanding any other provisions of any applicable rule or regulation or requirement of this permit that state specific methods that may be used to assess compliance with applicable requirements, pursuant to 40 CFR Part 70 and EPA's Credible Evidence Rule, 62 Fed. Reg. 8314 (Feb. 24, 1997), any credible evidence or information relevant to whether a source would have been in compliance with applicable requirements if the appropriate performance or compliance test or procedure had been performed shall be considered for purposes of Title V compliance certifications. Furthermore, for purposes of establishing whether or not a person has violated or is in violation of any emissions limitation or standard or permit condition, nothing in this permit shall preclude the use, including the exclusive use, by any person of any such credible evidence or information.

**VI. Public Notice**

This permit renewal requires public notice as per LAC 33:III.5107.D.1.a. A notice requesting public comment on the permit was published in The Advocate, Baton Rouge, on XX XX, 2006, and in the Plaquemine Post/South, Iberville, on XX XX, 2006, and submitted to the Iberville Parish Library, East Iberville Branch, on XX XX, 2006. A copy of the public notice was mailed to concerned citizens listed in the Office of Environmental Services Public Notice Mailing List on XX XX, 2006. All comments will be considered prior to the final permit decision.

**VII. Effects on Ambient Air**

Dispersion Model Used: None

Pollutant	Time Period	Calculated Maximum Ground Level Concentration	Louisiana Air Quality Standard (NAAQS)
-----------	-------------	---	---

Not Applicable

**AIR PERMIT BRIEFING SHEET**  
**PERMITS DIVISION**  
**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**ST. GABRIEL PLANT**  
**AGENCY INTEREST NO.: 3263**  
**AIR PRODUCTS AND CHEMICALS, INC.**  
**ST. GABRIEL, IBERVILLE PARISH, LOUISIANA**

**VIII. General Condition XVII Activities**

ID No.	Description	No. of Units	PM <sub>10</sub> (TPY)	SO <sub>2</sub> (TPY)	NO <sub>x</sub> (TPY)	CO (TPY)	VOC (TPY)	NH <sub>3</sub> (TPY)	TEA (TPY)
G1	Large Turnaround Air Compressor(s)	1	0.33	0.31	4.63	1.00	0.37	-	-
G2	Large Turnaround Pump(s)	1	0.34	0.32	4.82	1.04	0.38	-	-
G3	Large Turnaround Electrical Generator(s)	2	0.14	1.65	4.90	1.12	0.13	-	-
G4	Tank Cleaning Activities	N/A	-	-	-	-	4.77	0.02	0.75
G5	Small Turnaround Air Compressor(s)	3	0.34	0.31	4.74	1.02	0.38	-	-
G6	Small Turnaround Pump(s)	3	0.34	0.32	4.79	1.03	0.38	-	-
G7	Small Turnaround Electrical Generator(s)	2	0.33	0.31	4.65	1.00	0.37	-	-
G8	Maintenance Light Towers	8	<0.01	0.32	4.77	0.01	0.38	-	-
G9	General Plant Maintenance Air Compressor 1	1	0.34	0.31	4.74	1.02	0.38	-	-
G10	General Plant Maintenance Air Compressor 2	1	0.34	0.31	4.74	1.02	0.38	-	-
G11	General Plant Maintenance Diesel Pump(s)	2	0.32	0.29	4.44	0.96	0.35	-	-
G12	General Plant Maintenance Electrical Generator(s)	2	0.28	0.26	3.97	0.86	0.32	-	-
G13	TK-207 Venting to Drum	N/A	-	-	-	-	0.33	-	-
G14	Change Tank Landing Losses	N/A	-	-	-	-	4.56	-	3.94
G15	Sock Filters	N/A	-	-	-	-	<0.01	-	-
G16	Sampling	N/A	-	-	-	-	0.35	0.32	0.02
G17	Pump Maintenance	N/A	-	-	-	-	0.14	0.06	0.03

**AIR PERMIT BRIEFING SHEET**  
**PERMITS DIVISION**  
**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**ST. GABRIEL PLANT**  
**AGENCY INTEREST NO.: 3263**  
**AIR PRODUCTS AND CHEMICALS, INC.**  
**ST. GABRIEL, IBERVILLE PARISH, LOUISIANA**

ID No.	Description	No. of Units	PM <sub>10</sub> (TPY)	SO <sub>2</sub> (TPY)	NO <sub>x</sub> (TPY)	CO (TPY)	VOC (TPY)	NH <sub>3</sub> (TPY)	TEA (TPY)
G18	Instrument Maintenance	N/A	-	-	-	-	<0.01	-	-
G19	Vessel & Equipment Preparation	N/A	-	-	-	-	4.66	-	-
G20	Compressor Maintenance	N/A	-	-	-	-	0.09	0.18	0.04
G21	Parts Washer	N/A	-	-	-	-	0.01	-	-
G22	Honeywagon	N/A	-	-	-	-	0.04	-	-
G23	P-352 Fire Water Pump Diesel Exhaust	1	0.20	0.18	2.79	0.60	0.22	-	-
G24	P-312 Process Water Well Pump	1	0.06	0.06	0.89	0.19	0.07	-	-
G25	U-393 Emergency Generator	1	0.25	0.23	3.48	0.75	0.28	-	-

**AIR PERMIT BRIEFING SHEET**  
**PERMITS DIVISION**  
**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**ST. GABRIEL PLANT**  
**AGENCY INTEREST NO.: 3263**  
**AIR PRODUCTS AND CHEMICALS, INC.**  
**ST. GABRIEL, IBERVILLE PARISH, LOUISIANA**

**IX. Insignificant Activities:**

ID No.	Insignificant Activities	Capacity	Regulation Citation
3-76	FH101 Process Heater	5 MM BTU/hr	LAC 33:III.501.B.5.A.1
25-95	Storage Tank, TK-3211	1000 gallons	LAC 33:III.501.B.5.A.3
16-96	Treated Water Tank, TK-322	24000 gallons	LAC 33:III.501.B.5.B.8
17-96	Boiler Blowdown Tank, TK-3710	15200 gallons	LAC 33:III.501.B.5.B.8
21-96	Storage Tank, TK-333	55 gallons	LAC 33:III.501.B.5.A.2
22-96	Storage Tank, TK-331	1000 gallons	LAC 33:III.501.B.5.A.3
23-96	Storage Tank, TK-332	850 gallons	LAC 33:III.501.B.5.A.3
24-96	Amines Tank, TK-3212	500 gallons	LAC 33:III.501.B.5.A.3
27-96	Storage Tank, U-323	55 gallons	LAC 33:III.501.B.5.A.2
28-96	Storage Tank, U-322	55 gallons	LAC 33:III.501.B.5.A.2
29-96	Process Water Tank, TK-353	600000 gallons	LAC 33:III.501.B.5.B.8
30-96	Chilled Water Storage Tank, TK-216	7000 gallons	LAC 33:III.501.B.5.A.3
31-96	Day Tank for Emergency Generator, TK-354	300 gallons	LAC 33:III.501.B.5.A.3
33-96	Caustic Tank, TK-215	140000 gallons	LAC 33:III.501.B.5.A.10
34-96	Waste Treatment Caustic Tank, TK-375	7000 gallons	LAC 33:III.501.B.5.A.3
35-96	Diesel Fuel Tank, TK-311 (P312)	125 gallons	LAC 33:III.501.B.5.A.2
41-96	Firewater (P352) Diesel Tank, TK-352	325 gallons	LAC 33:III.501.B.5.A.3
TK-383	WWT Bulk Polymer	2437 gallons	LAC 33:III.501.B.5.A.3
TK-384	WWT Antifoam Tank	1485 gallons	LAC 33:III.501.B.5.A.3
N/A	Amines Day Tank, U-326	55 gallons	LAC 33:III.501.B.5.A.2
N/A	Clarifier Sulfite Tank, TK-3716	188 gallons	LAC 33:III.501.B.5.A.2
N/A	Diesel Storage (Red Box)	192 gallons	LAC 33:III.501.B.5.A.2
N/A	Kerosene Storage Tank	310 gallons	LAC 33:III.501.B.5.A.3
N/A	Laboratory Equipment/Vents	N/A	LAC 33:III.501.B.5.A.6
N/A	Misc. Inorganic and Organic Chemical Cleaning Storage Tanks	9500 gallons	LAC 33:III.501.B.5.A.3, 4 &10
N/A	Portable Heaters	<1 MM BTU/hr	LAC 33:III.501.B.5.A.1
N/A	Sulfuric Acid Tank	3000 gallons	LAC 33:III.501.B.5.A.3
N/A	Water Washing Operations of Empty Drums	55 gallons	LAC 33:III.501.B.5.A.7

**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**ST. GABRIEL PLANT**  
**AGENCY INTEREST NO.: 3263**  
**AIR PRODUCTS AND CHEMICALS, INC.**  
**ST. GABRIEL, IBERVILLE PARISH, LOUISIANA**

Emission Point ID	Source Description	State Regulations (LAC 33:III.Chapter)								
		5▲	9	11	13	15	21	22	29*	51*
	Facility-Wide	1	1	1	1	1	1	1	1	1
EQT032	1-06: TK-500 SU/SD									
EQT003	2-76: Boilers				1	1				
EQT004	2A-76: Boilers				1	1				
EQT005	4-76: TK-201									
EQT006	5-76: TK-202									
EQT007	6-76: TK-208									
EQT008	8-76B: TK-210									
EQT009	8-76C: TK-203									
EQT010	8-76D: TK-207									
EQT011	8-76E: TK-217									
EQT012	8-76F: TK-211									
EQT013	8-76G: TK-212									
EQT014	8-76H: TK-213									
EQT015	8-76I: TK-214									
EQT016	8-76J: TK-209									
EQT017	9-76: Loading Area									
EQT018	10-76: T-107 Low Pressure Absorber								2	
EQT019	11-76: TK-341								1	
EQT020	12-76: TK-343 No. 2 Fuel Oil Tank								3	
FUG001	13-76: Plant Fugitive Emissions								1	
EQT021	14-76: TK-342								1	
EQT030	WW-06: Wastewater Unit								2	

**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**ST. GABRIEL PLANT  
AGENCY INTEREST NO.: 3263  
AIR PRODUCTS AND CHEMICALS, INC.  
ST. GABRIEL, IBERVILLE PARISH, LOUISIANA**

Emission Point ID	Source Description	State Regulations (LAC 33:III:Chapter)									
		5▲	9	11	13	15	21	22	29*	51*	56
EQT022	7-96: U331 - Cooling Tower No. 1										3
EQT026	39-96: U337 - Cooling Tower										3
EQT023	9-96: Gasoline Tank					1					
EQT024	10-96: TK-324 Sulfuric Acid Tank					3					3
EQT025	20-96: Sulfuric Acid Tank, TK- 337					3					3
EQT027	40-96: T-112 Low Pressure Absorber					1					
EQT028	41-96: C-101 Process Recycle Absorber					1					
EQT029	42-96: C-102 Process Recycle Absorber					1					

\* The regulations indicated above are State Only regulations.

- ▲ All LAC 33:III Chapter 5 citations are federally enforceable including LAC 33:III:501.C.6 citations, except when the requirement found in the "Specific Requirements" report specifically states that the regulation is State Only.

**KEY TO MATRIX**

- |   |   |
|---|---|
| 1 | - The regulations have applicable requirements which apply to this particular emission source.  |
| 1 | - The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.   |
| 2 | - The regulations have applicable requirements which apply to this particular emission source but the source is currently exempt from these requirements due to meeting a specific criteria, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date. |
| 3 | - The regulations apply to this general type of emission source (i.e. vents, furnaces, towers, and fugitives) but do not apply to this particular emission source.  |

Blank – The regulations clearly do not apply to this type of emission source.

**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**ST. GABRIEL PLANT  
AGENCY INTEREST NO.: 3263  
AIR PRODUCTS AND CHEMICALS, INC.  
ST. GABRIEL, IBERVILLE PARISH, LOUISIANA**

Emission Point ID	Source Description	NSPS Subpart (40 CFR 60)									40 CFR 61			40 CFR				
		A	D	Da	Db	Dc	K	Ka	Kb	VV	NNN	RRR	YYY	Subpart V	63	64	68	82
	Facility-Wide																1	1
EQT032	1-06: TK-500 SU/SD																	
EQT003	2-76: Boilers	3	3	3	3													
EQT004	2A-76: Boilers	3	3	3	3													
EQT005	4-76: TK-201									3	3	3						
EQT006	5-76: TK-202									3	3	3						
EQT007	6-76: TK-208									3	3	3						
EQT008	8-76B: TK-210									3	3	3						
EQT009	8-76C: TK-203									3	3	3						
EQT010	8-76D: TK-207									3	3	3						
EQT011	8-76E: TK-217									3	3	3						
EQT012	8-76F: TK-211									3	3	3						
EQT013	8-76G: TK-212									3	3	3						
EQT014	8-76H: TK-213									3	3	3						
EQT015	8-76I: TK-214									3	3	3						
EQT016	8-76J: TK-209									3	3	3						
EQT017	9-76: Loading Area																	1

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

ST. GABRIEL PLANT  
AGENCY INTEREST NO.: 3263  
AIR PRODUCTS AND CHEMICALS, INC.  
ST. GABRIEL, IBERVILLE PARISH, LOUISIANA

Emission Point ID	Source Description	NSPS Subpart (40 CFR 60)										40 CFR 61				40 CFR			
		A	D	Da	Db	Dc	K	Ka	Kb	VV	NNN	RRR	YYY	Subpart V	63	64	68	82	
EQT018	10-76: T-107 Low Pressure Absorber									3	3					3			
EQT019	11-76: TK-341							3	3	3									
EQT020	12-76: TK-343 No. 2 Fuel Oil Tank							3	3	3									
FUG001	13-76: Plant Fugitive Emissions									1				3					
EQT021	14-76: TK-342							3	3	3									
EQT030	WW-06: Wastewater Unit							3	3	3			1		3				
EQT022	7-96: U331 - Cooling Tower No. 1														3				
EQT026	39-96: U337 - Cooling Tower																		
EQT023	9-96: Gasoline Tank																		
EQT024	10-96: TK-324 Sulfuric Acid Tank																		
EQT025	20-96: Sulfuric Acid Tank, TK-337																		
EQT027	40-96: T-112 Low Pressure Absorber														3				
EQT028	41-96: C-101 Process Recycle Absorber																		
EQT029	42-96: C-102 Process Recycle Absorber																		

**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**ST. GABRIEL PLANT  
AGENCY INTEREST NO.: 3263  
AIR PRODUCTS AND CHEMICALS, INC.  
ST. GABRIEL, IBERVILLE PARISH, LOUISIANA**

\* The regulations indicated above are State Only regulations.

▲ All LAC 33:III Chapter 5 citations are federally enforceable including LAC 33:III.501.C.6 citations, except when the requirement found in the "Specific Requirements" report specifically states that the regulation is State Only.

**KEY TO MATRIX**

- 1 - The regulations have applicable requirements which apply to this particular emission source.
  - The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.
- 2 - The regulations have applicable requirements which apply to this particular emission source but the source is currently exempt from these requirements due to meeting a specific criteria, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.
- 3 - The regulations apply to this general type of emission source (i.e. vents, furnaces, towers, and fugitives) but do not apply to this particular emission source.

Blank – The regulations clearly do not apply to this type of emission source.

**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**ST. GABRIEL PLANT**  
**AGENCY INTEREST NO.: 3263**  
**AIR PRODUCTS AND CHEMICALS, INC.**  
**ST. GABRIEL, IBERVILLE PARISH, LOUISIANA**

**X. Explanation for Exemption status or Non-Applicability of a Source**

ID. No.:	Requirement	Notes
Site Wide	Limiting Volatile Organic Compound Emissions from Cleanup Solvent Processing (LAC 33:III.2151)	DOES NOT APPLY. Facility does not use solvents.
	Comprehensive Toxic Air Pollutant Emission Control Program (LAC 33:III.Chapter 51) STATE ONLY	DOES NOT APPLY. Facility is a minor source for air toxic.
2-76 2A-76 Boilers	Emission Standards for Sulfur Dioxide, Emission Limitations (LAC 33:III.1503)	EXEMPT. Unit emits less than 250 tons per year of sulfur compounds and is exempt from the 2,000 ppm(v) limitation per LAC 33:III.1503.C.
	NSPS Subpart Dc – Small Industrial – Commercial – Institutional Steam Generating Units (40 CFR 60.40c)	DOES NOT APPLY. The boilers were not constructed, reconstructed, modified after June 9, 1989.
	NSPS Subpart Db – Industrial – Commercial – Institutional Steam Generating Units (40 CFR 60.40b)	DOES NOT APPLY. The boilers were not constructed, reconstructed, modified after June 9, 1984.
	NSPS Subpart Da – Electric Utility Steam Generating Units (40 CFR 60.40a)	DOES NOT APPLY. The boilers have a heat input <250 MM BTU/hr and were not constructed, reconstructed, or modified after September 18, 1978.
	NSPS Subpart D – Fossil-Fuel-Fired Steam Boilers (40 CFR 60.40a)	DOES NOT APPLY. The boilers have a heat input <250 MM BTU/hr.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

ST. GABRIEL PLANT  
AGENCY INTEREST NO.: 3263  
AIR PRODUCTS AND CHEMICALS, INC.  
ST. GABRIEL, IBERVILLE PARISH, LOUISIANA

**X. Explanation for Exemption status or Non-Applicability of a Source**

ID. No.:	Requirement	Notes
8-76D (TK-207) 8-76E (TK-217) 8-76J (TK-209)	NSPS Subpart Kb- Standards of Performance for Volatile Organic Liquid Storage Vessels (40 CFR 60.110.b)	DOES NOT APPLY. Tanks were not reconstructed or modified after July 23, 1984.
Storage Tanks	NSPS Subpart Ka- Standards of Performance for Storage Vessels for Petroleum Liquids (40 CFR 60.110a)	DOES NOT APPLY. Tanks do not store petroleum liquids.
	NSPS Subpart K- Standards of Performance for Storage Vessels for Petroleum Liquids (40 CFR 60.110)	DOES NOT APPLY. Tanks do not store petroleum liquids.
4-76 (TK-201) 5-76 (TK-202) 6-76 (TK-208) 8-76B (TK-210) 8-76C (TK-203) 8-76F (TK-211) 8-76G (TK-212) 8-76H (TK-213) 8-76I (TK-214) 11-76 (TK-341) 14-76 (TK-342)	NSPS Subpart Kb- Standards of Performance for Volatile Organic Liquid Storage Vessels (40 CFR 60.110b)	DOES NOT APPLY. Tanks were not reconstructed or modified after July 23, 1984.
Storage Tanks	NSPS Subpart Ka- Standards of Performance for Storage Vessels for Petroleum Liquids (40 CFR 60.110a)	DOES NOT APPLY. Tanks do not store petroleum liquids.
	NSPS Subpart K- Standards of Performance for Storage Vessels for Petroleum Liquids (40 CFR 60.110)	DOES NOT APPLY. Tanks do not store petroleum liquids.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

ST. GABRIEL PLANT  
AGENCY INTEREST NO.: 3263  
AIR PRODUCTS AND CHEMICALS, INC.  
ST. GABRIEL, IBERVILLE PARISH, LOUISIANA

**X. Explanation for Exemption status or Non-Applicability of a Source**

ID. No.:	Requirement	Notes
10-76 T-107 Low Pressure Absorber	NSPS Subpart NNN- Standards of Performance for VOC Compound Emissions from SOCMI Distillation Operations (40 CFR 60.660)	DOES NOT APPLY. The distillation unit does not produce as a product, by-product, or intermediate product any of the chemicals listed in 40 CFR 60.667.
	NSPS Subpart RRR – Standards of Performance for VOC Emissions from SOCMI Reactor Processes (40 CFR 60.700)	DOES NOT APPLY. The distillation unit does not produce as a product, by-product, or intermediate product any of the chemicals listed in 40 CFR 60.707.
	Limiting VOC Emissions from SOCMI Reactor Process and Distillation Operations (LAC 33:III.2147)	EXEMPT. Air Products claims source as an equivalent control device although it is not a combustion device.
	Compliance Assurance Monitoring (40 CFR 64)	DOES NOT APPLY. Source is an inherent process equipment.
12-76 (TK-343) No. 2 Fuel Oil Tank	NSPS Subpart Kb- Standards of Performance for Volatile Organic Liquid Storage Vessels (40 CFR 60.110.b)	DOES NOT APPLY. Tank is <75 m <sup>3</sup> (19,813 gallons). Tank was not constructed, reconstructed, or modified after July 23, 1984. Tank is <75 m <sup>3</sup> (19,813 gallons).
	NSPS Subpart Ka- Standards of Performance for Storage Vessels for Petroleum Liquids (40 CFR 60.110a)	DOES NOT APPLY. Tank was not constructed, reconstructed, or modified after May 18, 1978.
	NSPS Subpart K- Standards of Performance for Storage Vessels for Petroleum Liquids (40 CFR 60.110)	DOES NOT APPLY. Tank is <75 m <sup>3</sup> (19,813 gallons).
	Storage of Volatile Organic Liquids (LAC 33:III.2103)	DOES NOT APPLY. Vapor pressure < 1.5 psia.

**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**ST. GABRIEL PLANT**  
**AGENCY INTEREST NO.: 3263**  
**AIR PRODUCTS AND CHEMICALS, INC.**  
**ST. GABRIEL, IBERVILLE PARISH, LOUISIANA**

**X. Explanation for Exemption status or Non-Applicability of a Source**

ID. No.:	Requirement	Notes
13-76 Plant Fugitives	NESHAP Subpart V- National Emission Standards for Equipment Leaks (fugitive emissions) (40 CFR 61.240)	DOES NOT APPLY. Does not meet applicability as per 40 CFR Part 61 Subpart A since facility is not a major source of HAPs.
	Fugitive Emission Control (LAC 33:III.2121)	DOES NOT APPLY. Subject to LAC 33:III.2122.
9-96 Gasoline Storage Tank	NSPS Subpart Kb- Standards of Performance for Volatile Organic Liquid Storage Vessels (40 CFR 60.110.b)	DOES NOT APPLY. Tank is <75 m <sup>3</sup> (19,813 gallons).
	NSPS Subpart Ka- Standards of Performance for Storage Vessels for Petroleum Liquids (40 CFR 60.110a)	DOES NOT APPLY. Tank is <75 m <sup>3</sup> (19,813 gallons).
	NSPS Subpart K- Standards of Performance for Storage Vessels for Petroleum Liquids (40 CFR 60.110)	DOES NOT APPLY. Tank is <75 m <sup>3</sup> (19,813 gallons).
10-96 (TK-324) 20-96 (TK-337) Sulfuric Acid Tanks	NSPS Subpart Kb- Standards of Performance for Volatile Organic Liquid Storage Vessels (40 CFR 60.110.b)	DOES NOT APPLY. Do not store volatile organic liquids.
	NSPS Subpart Ka- Standards of Performance for Storage Vessels for Petroleum Liquids (40 CFR 60.110a)	DOES NOT APPLY. Do not store volatile organic liquids.
	NSPS Subpart K- Standards of Performance for Storage Vessels for Petroleum Liquids (40 CFR 60.110)	DOES NOT APPLY. Do not store volatile organic liquids.

**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**ST. GABRIEL PLANT**  
**AGENCY INTEREST NO.: 3263**  
**AIR PRODUCTS AND CHEMICALS, INC.**  
**ST. GABRIEL, IBERVILLE PARISH, LOUISIANA**

**X. Explanation for Exemption status or Non-Applicability of a Source**

ID. No.:	Requirement	Notes
10-96 (TK-324) 20-96 (TK-337)	Storage of Volatile Organic Liquids (LAC 33:III.2103)	DOES NOT APPLY. Do not store volatile organic liquids.
Sulfuric Acid Tanks	Emission Control and Reduction Requirements and Standards – State Only (LAC 33:III.5109)	DOES NOT APPLY. Tanks emit sulfuric acid, a Class III toxic air pollutant. Facility emissions of sulfuric acid are less than the MER.
40-96 T-112 Low Pressure Absorber	Compliance Assurance Monitoring (40 CFR 64)	DOES NOT APPLY. As defined in 40 CFR 64.1, the source is an inherent process equipment.
WW-06 Wastewater Unit	NSPS Subpart Kb- Standards of Performance for Volatile Organic Liquid Storage Vessels (40 CFR 60.110.b)	DOES NOT APPLY. Tanks were not constructed, reconstructed, or modified after July 23, 1984.
	NSPS Subpart Ka- Standards of Performance for Storage Vessels for Petroleum Liquids (40 CFR 60.110a)	DOES NOT APPLY. Tanks associated with the Wastewater Unit do not store petroleum liquids.
	NSPS Subpart K- Standards of Performance for Storage Vessels for Petroleum Liquids (40 CFR 60.110)	DOES NOT APPLY. Tanks associated with the Wastewater Unit do not store petroleum liquids.
	Storage of Volatile Organic Liquids (LAC 33:III.2103)	DOES NOT APPLY. Tanks associated with the Wastewater Unit store liquids with a vapor pressure <1.5 psia.
	Oil// Water Separators (LAC 33:III.2109)	EXEMPT. Separates less than 200 gallon a day of materials containing VOC.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

ST. GABRIEL PLANT  
AGENCY INTEREST NO.: 3263  
AIR PRODUCTS AND CHEMICALS, INC.  
ST. GABRIEL, IBERVILLE PARISH, LOUISIANA

**X. Explanation for Exemption status or Non-Applicability of a Source**

ID. No.:	Requirement	Notes
WW-06 Wastewater Unit	Limiting Volatile Organic Compound (VOC) Emissions from Industrial Wastewater (LAC 33:III.2153)	DOES NOT APPLY. Unit does not meet the flow rate criteria (VOC concentration greater than or equal to 10,000 ppmw or a VOC concentration greater than or equal to 1000 ppmw and a flow rate greater than or equal to 10 liters per minute).
7-96 (U331) 39-96 (U337) Cooling Towers	Emission Control and Reduction Requirements and Standards – State Only (LAC 33:III.5109)	DOES NOT APPLY. St. Gabriel facility is not a major source of TAPs.
	NESHAP for Industrial Process Cooling Towers (40 CFR 63.400)	DOES NOT APPLY. Cooling towers do not operate with chromium-based water treatment chemicals.

The above table provides explanation for both the exemption status or non-applicability of a source cited by 2 or 3 in the matrix presented in Section X of this permit.

## 40 CFR PART 70 GENERAL CONDITIONS

- A. The term of this permit shall be five (5) years from date of issuance. An application for a renewal of this 40 CFR Part 70 permit shall be submitted to the administrative authority no later than six months prior to the permit expiration date. Should a complete permit application not be submitted six months prior to the permit expiration date, a facility's right to operate is terminated pursuant to 40 CFR Section 70.7(c)(ii). Operation may continue under the conditions of this permit during the period of the review of the application for renewal. [LAC 33:III.507.E.1, E.3, E.4, reference 40 CFR 70.6(a)(2)]
- B. The conditions of this permit are severable; and if any provision of this permit or the application of any provision of this permit to any circumstance is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby. [Reference 40 CFR 70.6(a)(5)]
- C. Permittee shall comply with all conditions of the 40 CFR Part 70 permit. Any permit noncompliance constitutes a violation of the Clean Air Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. This permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. [LAC 33:III.507.B.2, reference 40 CFR 70.6(a)(6)(i) & (iii)]
- D. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. [Reference 40 CFR 70.6(a)(6)(ii)]
- E. This permit does not convey any property rights of any sort, or an exclusive privilege. [Reference 40 CFR 70.6(a)(6)(iv)]
- F. The permittee shall furnish to the permitting authority, within a reasonable time, any information that the permitting authority may request in writing to determine whether cause exists for modifying, revoking, and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the permitting authority copies of records required to be kept by the permit or, for information claimed to be confidential, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality. A claim of confidentiality does not relieve the permittee of the requirement to provide the information. [LAC 33:III.507.B.2, 517.F, reference 40 CFR 70.6(a)(6)(v)]
- G. Permittee shall pay fees in accordance with LAC 33:III.Chapter 2 and 40 CFR Section 70.6(a)(7). [LAC 33:III.501.C.2, reference 40 CFR 70.6(a)(7)]

## 40 CFR PART 70 GENERAL CONDITIONS

- H. Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the permitting authority or authorized representative to perform the following:
  - 1. enter upon the permittee's premises where a 40 CFR Part 70 source is located or emission-related activity is conducted, or where records must be kept under the conditions of the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(i)];
  - 2. have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(ii)];
  - 3. inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(iii)]; and
  - 4. as authorized by the Clean Air Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit or applicable requirements. [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(iv)]
- I. All required monitoring data and supporting information shall be kept available for inspection at the facility or alternate location approved by the agency for a period of at least five (5) years from the date of the monitoring sample, measurement, report, or application. Supporting information includes calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and all reports required by the permit.  
[Reference 40 CFR 70.6(a)(3)(ii)(B)]
- J. Records of required monitoring shall include the following:
  - 1. the date, place as defined in the permit, and time of sampling or measurements;
  - 2. the date(s) analyses were performed;
  - 3. the company or entity that performed the analyses;
  - 4. the analytical techniques or methods used;
  - 5. the results of such analyses; and
  - 6. the operating conditions as existing at the time of sampling or measurement.  
[Reference 40 CFR 70.6(a)(3)(ii)(A)]
- K. Permittee shall submit at least semiannually, reports of any required monitoring, clearly identifying all instances of deviations from permitted monitoring requirements, certified by a responsible company official. For previously reported deviations, in lieu of attaching the individual deviation reports, the semiannual report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The semiannual reports shall be submitted to the Office of Environmental Compliance, Surveillance Division by March 31 for the preceding period encompassing July through December and September 30 for the preceding period encompassing January through June. Any quarterly deviation report required to be submitted by March 31 or September 30 in accordance with Part 70 General Condition R may be consolidated with the semi-annual reports required by this general condition as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. [LAC 33:III.507.H, reference 40 CFR 70.6(a)(3)(iii)(A)]
- L. The permittee shall submit at least semiannual reports on the status of compliance pursuant to 40 CFR Section 70.5 (c) (8) and a progress report on any applicable schedule of compliance pursuant to 40 CFR Section 70.6 (c) (4). [LAC 33:III.507.H.1, reference 40 CFR 70.6(c)(4)]

## 40 CFR PART 70 GENERAL CONDITIONS

- M. Compliance certifications per LAC 33:III.507.H.5 shall be submitted to the Administrator as well as the permitting authority. For previously reported compliance deviations, in lieu of attaching the individual deviation reports, the annual report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The compliance certifications shall be submitted to the Office of Environmental Compliance, Surveillance Division by March 31 for the preceding calendar year. [LAC 33:III.507.H.5, reference 40 CFR 70.6(c)(5)(iv)]
- N. If the permittee seeks to reserve a claim of an affirmative defense as provided in LAC 33:III.507.J.2, the permittee shall, in addition to any emergency or upset provisions in any applicable regulation, notify the permitting authority within 2 working days of the time when emission limitations were exceeded due to the occurrence of an upset. In the event of an upset, as defined under LAC 33:III.507.J, which results in excess emissions, the permittee shall demonstrate through properly signed, contemporaneous operating logs, or other relevant evidence that: 1) an emergency occurred and the cause was identified; 2) the permitted facility was being operated properly at the time; and 3) during the emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standard or requirement of the permit. [LAC 33:III.507.J.2, reference 40 CFR 70.6(g)(3)(iv) & (i-iii)]
- O. Permittee shall maintain emissions at a level less than or equal to that provided for under the allowances that the 40 CFR Part 70 source lawfully holds under Title IV of the Clean Air Act or the regulations promulgated thereunder. No permit revision shall be required for increases in emissions that are authorized by allowances acquired pursuant to the acid rain program, provided that such increases do not require a permit revision under any other applicable requirement. No limit shall be placed on the number of allowances held by the source. The source may not, however, use allowances as a defense to noncompliance with any other applicable requirement. Any such allowance shall be accounted for according to the procedures established in regulations promulgated under Title IV of the Clean Air Act. [Reference 40 CFR 70.6(a)(4)]
- P. Any permit issued pursuant to 40 CFR Part 70 may be subject to reopening prior to the expiration of the permit for any of the conditions specified in 40 CFR Section 70.7(f) or LAC 33:III.529. [LAC 33:III.529.A-B, reference 40 CFR 70.7(f)]
- Q. Permittee may request an administrative amendment to the permit to incorporate test results from compliance testing if the following criteria are met:
  1. the changes are a result of tests performed upon start-up of newly constructed, installed, or modified equipment or operations;
  2. increases in permitted emissions will not exceed five tons per year for any regulated pollutant;
  3. increases in permitted emissions of Louisiana toxic air pollutants or of federal hazardous air pollutants would not constitute a modification under LAC 33:III. Chapter 51 or under Section 112 (g) of the Clean Air Act;
  4. changes in emissions would not require new source review for prevention of significant deterioration or nonattainment and would not trigger the applicability of any federally applicable requirement;
  5. changes in emissions would not qualify as a significant modification; and
  6. the request is submitted no later than 12 months after commencing operation. [LAC 33:III.523.A, reference 40 CFR 70.7(d)]

## **40 CFR PART 70 GENERAL CONDITIONS**

- R. Permittee shall submit prompt reports of all permit deviations as specified below to the Office of Environmental Compliance, Surveillance Division. All such reports shall be certified by a responsible official in accordance with 40 CFR 70.5(d).
1. A written report shall be submitted within 7 days of any emission in excess of permit requirements by an amount greater than the Reportable Quantity established for that pollutant in LAC 33.I.Chapter 39.
  2. A written report shall be submitted within 7 days of the initial occurrence of any emission in excess of permit requirements, regardless of the amount, where such emission occurs over a period of seven days or longer.
  3. A written report shall be submitted quarterly to address all permit deviations not included in paragraphs 1 or 2 above. Unless required by an applicable reporting requirement, a written report is not required during periods in which there is no deviation. The quarterly deviation reports submitted on March 31 and September 30 may be consolidated with the semi-annual reports required by Part 70 General Condition K as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. For previously reported permit deviations, in lieu of attaching the individual deviation reports, the quarterly report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The schedule for submittal of quarterly reports shall be no later than the dates specified below for any permit deviations occurring during the corresponding specified calendar quarter:
    - a. Report by June 30 to cover January through March
    - b. Report by September 30 to cover April through June
    - c. Report by December 31 to cover July through September
    - d. Report by March 31 to cover October through December
  4. Any written report submitted in advance of the timeframes specified above, in accordance with an applicable regulation, may serve to meet the reporting requirements of this condition provided such reports are certified in accordance with 40 CFR 70.5(d) and contain all information relevant to the permit deviation. Reporting under this condition does not relieve the permittee from the reporting requirements of any applicable regulation, including LAC 33.I.Chapter 39, LAC 33.III.Chapter 9, and LAC 33.III.5107. [Reference 40 CFR 70.6(a)(3)(iii)(B)]
- S. Permittee shall continue to comply with applicable requirements on a timely basis, and will meet on a timely basis applicable requirements that become effective during the permit term. [Reference 40 CFR 70.5(c)(8)(iii)]

## 40 CFR PART 70 GENERAL CONDITIONS

- T. The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B:
1. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to 40 CFR 82.156;
  2. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158;
  3. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161;
  4. Persons disposing of small appliances, MVACs, and MVAC-like appliances must comply with recordkeeping requirements pursuant to 40 CFR 82.166. ("MVAC-like appliance" as defined at 40 CFR 82.152);
  5. Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to 40 CFR 82.156; and
  6. Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to 40 CFR 82.166. [Reference 40 CFR 82, Subpart F]
- U. If the permittee performs a service on motor (fleet) vehicles when this service involves ozone-depleting substance refrigerant (or regulated substitute substance) in the motor vehicle air conditioner (MVAC), the permittee is subject to all the applicable requirements as specified in 40 CFR Part 82, Subpart B, Servicing of Motor Vehicle Air Conditioners.

The term "motor vehicle" as used in Subpart B does not include a vehicle in which final assembly of the vehicle has not been completed. The term "MVAC" as used in Subpart B does not include the air-tight sealed refrigeration system used as refrigerated cargo, or system used on passenger buses using HCFC-22 refrigerant. [Reference 40 CFR 82, Subpart B]

- V. Data availability for continuous monitoring or monitoring to collect data at specific intervals: Except for monitoring malfunctions, associated repairs, and required quality assurance or control activities (including calibration checks and required zero and span adjustments), the permittee shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the emissions unit is operating. For purposes of reporting monitoring deviations under Part 70 General Conditions K and R, and unless otherwise provided for in the Specific Requirements (or Table 3) of this permit, the minimum degree of data availability shall be at least 90% (based on a monthly average) of the operating time of the emissions unit or activity being monitored. This condition does not apply to Leak Detection and Repair (LDAR) programs for fugitive emissions (e.g., 40 CFR 60 Subpart VV, 40 CFR 63 Subpart H).

## **LOUISIANA AIR EMISSION PERMIT GENERAL CONDITIONS**

- I. This permit is issued on the basis of the emissions reported in the application for approval of emissions and in no way guarantees that the design scheme presented will be capable of controlling the emissions to the type and quantities stated. Failure to install, properly operate and/or maintain all proposed control measures and/or equipment as specified in the application and supplemental information shall be considered a violation of the permit and LAC 33:III.501. If the emissions are determined to be greater than those allowed by the permit (e.g. during the shakedown period for new or modified equipment) or if proposed control measures and/or equipment are not installed or do not perform according to design efficiency, an application to modify the permit must be submitted. All terms and conditions of this permit shall remain in effect unless and until revised by the permitting authority.
- II. The permittee is subject to all applicable provisions of the Louisiana Air Quality Regulations. Violation of the terms and conditions of the permit constitutes a violation of these regulations.
- III. The Emission Rates for Criteria Pollutants, Emission Rates for TAP/HAP & Other Pollutants, and Specific Requirements sections or, where included, Emission Inventory Questionnaire sheets establish the emission limitations and are a part of the permit. Any operating limitations are noted in the Specific Requirements or, where included, Tables 2 and 3 of the permit. The synopsis is based on the application and Emission Inventory Questionnaire dated January 7, 2002, and a revised application dated June 6, 2006.
- IV. This permit shall become invalid, for the sources not constructed, if:
  - A. Construction is not commenced, or binding agreements or contractual obligations to undertake a program of construction of the project are not entered into, within two (2) years (18 months for PSD permits) after issuance of this permit, or;
  - B. If construction is discontinued for a period of two (2) years (18 months for PSD permits) or more.The administrative authority may extend this time period upon a satisfactory showing that an extension is justified.  
This provision does not apply to the time period between construction of the approved phases of a phased construction project. However, each phase must commence construction within two (2) years (18 months for PSD permits) of its projected and approved commencement date.
- V. The permittee shall submit semiannual reports of progress outlining the status of construction, noting any design changes, modifications or alterations in the construction schedule which have or may have an effect on the emission rates or ambient air quality levels. These reports shall continue to be submitted until such time as construction is certified as being complete. Furthermore, for any significant change in the design, prior approval shall be obtained from the Office of Environmental Services, Air Permits Division.
- VI. The permittee shall notify the Department of Environmental Quality, Office of Environmental Services, Air Permits Division within ten (10) calendar days from the date that construction is certified as complete and the estimated date of start-up of operation. The appropriate Regional Office shall also be so notified within the same time frame.

## LOUISIANA AIR EMISSION PERMIT GENERAL CONDITIONS

- VII. Any emissions testing performed for purposes of demonstrating compliance with the limitations set forth in paragraph III shall be conducted in accordance with the methods described in the Specific Conditions and, where included, Tables 1, 2, 3, 4, and 5 of this permit. Any deviation from or modification of the methods used for testing shall have prior approval from the Office of Environmental Assessment, Air Quality Assessment Division.
- VIII. The emission testing described in paragraph VII above, or established in the specific conditions of this permit, shall be conducted within sixty (60) days after achieving normal production rate or after the end of the shakedown period, but in no event later than 180 days after initial start-up (or restart-up after modification). The Office of Environmental Assessment, Air Quality Assessment Division shall be notified at least (30) days prior to testing and shall be given the opportunity to conduct a pretest meeting and observe the emission testing. The test results shall be submitted to the Air Quality Assessment Division within sixty (60) days after the complete testing. As required by LAC 33:III.913, the permittee shall provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits.
- IX. The permittee shall, within 180 days after start-up and shakedown of each project or unit, report to the Office of Environmental Compliance, Surveillance Division any significant difference in operating emission rates as compared to those limitations specified in paragraph III. This report shall also include, but not be limited to, malfunctions and upsets. A permit modification shall be submitted, if necessary, as required in Condition I.
- X. The permittee shall retain records of all information resulting from monitoring activities and information indicating operating parameters as specified in the specific conditions of this permit for a minimum of at least five (5) years.
- XI. If for any reason the permittee does not comply with, or will not be able to comply with, the emission limitations specified in this permit, the permittee shall provide the Office of Environmental Compliance, Surveillance Division with a written report as specified below.
- A. A written report shall be submitted within 7 days of any emission in excess of permit requirements by an amount greater than the Reportable Quantity established for that pollutant in LAC 33.I Chapter 39.
- B. A written report shall be submitted within 7 days of the initial occurrence of any emission in excess of permit requirements, regardless of the amount, where such emission occurs over a period of seven days or longer.
- C. A written report shall be submitted quarterly to address all emission limitation exceedances not included in paragraphs A or B above. The schedule for submittal of quarterly reports shall be no later than the dates specified below for any emission limitation exceedances occurring during the corresponding specified calendar quarter:
1. Report by June 30 to cover January through March
  2. Report by September 30 to cover April through June
  3. Report by December 31 to cover July through September
  4. Report by March 31 to cover October through December

**LOUISIANA AIR EMISSION PERMIT  
GENERAL CONDITIONS**

- D. Each report submitted in accordance with this condition shall contain the following information:
1. Description of noncomplying emission(s);
  2. Cause of noncompliance;
  3. Anticipated time the noncompliance is expected to continue, or if corrected, the duration of the period of noncompliance;
  4. Steps taken by the permittee to reduce and eliminate the noncomplying emissions; and
  5. Steps taken by the permittee to prevent recurrences of the noncomplying emissions.
- E. Any written report submitted in advance of the timeframes specified above, in accordance with an applicable regulation, may serve to meet the reporting requirements of this condition provided all information specified above is included. For Part 70 sources, reports submitted in accordance with Part 70 General Condition R shall serve to meet the requirements of this condition provided all specified information is included. Reporting under this condition does not relieve the permittee from the reporting requirements of any applicable regulation, including LAC 33.I.Chapter 39, LAC 33.III.Chapter 9, and LAC 33.III.5107.
- XII. Permittee shall allow the authorized officers and employees of the Department of Environmental Quality, at all reasonable times and upon presentation of identification, to:
- A. Enter upon the permittee's premises where regulated facilities are located, regulated activities are conducted or where records required under this permit are kept;
  - B. Have access to and copy any records that are required to be kept under the terms and conditions of this permit, the Louisiana Air Quality Regulations, or the Act;
  - C. Inspect any facilities, equipment (including monitoring methods and an operation and maintenance inspection), or operations regulated under this permit; and
  - D. Sample or monitor, for the purpose of assuring compliance with this permit or as otherwise authorized by the Act or regulations adopted thereunder, any substances or parameters at any location.
- XIII. If samples are taken under Section XII.D. above, the officer or employee obtaining such samples shall give the owner, operator or agent in charge a receipt describing the sample obtained. If requested prior to leaving the premises, a portion of each sample equal in volume or weight to the portion retained shall be given to the owner, operator or agent in charge. If an analysis is made of such samples, a copy of the analysis shall be furnished promptly to the owner, operator or agency in charge.
- XIV. The permittee shall allow authorized officers and employees of the Department of Environmental Quality, upon presentation of identification, to enter upon the permittee's premises to investigate potential or alleged violations of the Act or the rules and regulations adopted thereunder. In such investigations, the permittee shall be notified at the time entrance is requested of the nature of the suspected violation. Inspections under this

## **LOUISIANA AIR EMISSION PERMIT GENERAL CONDITIONS**

subsection shall be limited to the aspects of alleged violations. However, this shall not in any way preclude prosecution of all violations found.

- XV. The permittee shall comply with the reporting requirements specified under LAC 33:III.919 as well as notification requirements specified under LAC 33:III.927.
- XVI. In the event of any change in ownership of the source described in this permit, the permittee and the succeeding owner shall notify the Office of Environmental Services, Air Permits Division, within ninety (90) days after the event, to amend this permit.
- XVII. Very small emissions to the air resulting from routine operations, that are predictable, expected, periodic, and quantifiable and that are submitted by the permitted facility and approved by the Air Permits Division are considered authorized discharges. Approved activities are noted in the General Condition XVII Activities List of this permit. To be approved as an authorized discharge, these very small releases must:
1. Generally be less than 5 TPY
  2. Be less than the minimum emission rate (MER)
  3. Be scheduled daily, weekly, monthly, etc., or
  4. Be necessary prior to plant startup or after shutdown [line or compressor pressuring/depressuring for example]

These releases are not included in the permit totals because they are small and will have an insignificant impact on air quality. This general condition does not authorize the maintenance of a nuisance, or a danger to public health and safety. The permitted facility must comply with all applicable requirements, including release reporting under LAC 33:I.3901.

- XVIII. Provisions of this permit may be appealed in writing pursuant to La. R.S. 30:2024(A) within 30 days from receipt of the permit. Only those provisions specifically appealed will be suspended by a request for hearing, unless the secretary or the assistant secretary elects to suspend other provisions as well. Construction cannot proceed except as specifically approved by the secretary or assistant secretary. A request for hearing must be sent to the following:

Attention: Office of the Secretary, Legal Services Division  
La. Dept. of Environmental Quality  
Post Office Box 4302  
Baton Rouge, Louisiana 70821-4302

- XIX. Certain Part 70 general conditions may duplicate or conflict with state general conditions. To the extent that any Part 70 conditions conflict with state general conditions, then the Part 70 general conditions control. To the extent that any Part 70 general conditions duplicate any state general conditions, then such state and Part 70 provisions will be enforced as if there is only one condition rather than two conditions.

**General Information**

**AI ID: 3263 Air Products & Chemicals - St Gabriel Plant**  
**Activity Number: PER20020001**  
**Permit Number: 1280-00031-y2**  
**Air - Title V Regular Permit Renewal**

Also Known As:	ID	Name	User Group	Start Date
	1280-00031	Air Products & Chemicals - St Gabriel Plant	CDS Number	08-05-2002
	1280-00020	Air Products & Chemicals - St Gabriel Plant	Emission Inventory	03-03-2004
	231274455	Air Products & Chemicals St Gabriel Plant	Federal Tax ID	11-20-1999
	LAD085551877	Air Products & Chemicals - St Gabriel Plant	Hazardous Waste Notification	10-14-1994
	LAD085551877	Air Products & Chemicals	Inactive & Abandoned Sites	11-01-1979
	LA0046361	LPDES #	LPDES Permit #	06-25-2003
	WP1645	LWDPS #	LWDPS Permit #	06-25-2003
		Priority 2 Emergency Site	Priority 2 Emergency Site	07-20-2006
		Air Products & Chemicals Inc	Solid Waste	01-08-2002
	GD-047-1504	Air Products & Chemicals Inc	Solid Waste	01-08-2002
	GD-047-1504	Site ID #	Solid Waste Facility No.	08-14-2001
	GD-047-1504	Toxic Emissions Data Inventory #	Toxic Emissions Data Inventory #	01-01-1991
	1280-0031	TRI #	Toxic Release Inventory	07-08-2004
<b>Physical Location:</b>				Main FAX: 2256425203 Main Phone: 2256424216
<b>Mailing Address:</b>				
<b>Location of Front Gate:</b>		30° 15' 6" latitude, 91° 5' 28" longitude, Coordinate Method: Interpolation - Map, Coordinate Datum: NAD83		
<b>Related People:</b>		<b>Name</b>	<b>Mailing Address</b>	<b>Phone (Type)</b>
		Oscar M. Corona	PO Box 1 St. Gabriel, LA 707760001	2256424226 (WP)
		Jonathan M. Mellard	PO Box 1 St. Gabriel, LA 707760001	2256423169 (WP)
<b>Related Organizations:</b>		<b>Name</b>	<b>Address</b>	<b>Phone (Type)</b>
		Air Products & Chemicals - St Gabriel Plant	3790 Hwy 30 St. Gabriel, LA 70776	2256423169 (WP)
		Air Products & Chemicals - St Gabriel Plant	3790 Hwy 30 St. Gabriel, LA 70776	2256423169 (WP)
		Air Products & Chemicals - St Gabriel Plant	3790 Hwy 30 St. Gabriel, LA 70776	2256423169 (WP)
		Air Products & Chemicals - St Gabriel Plant	3790 Hwy 30 St. Gabriel, LA 70776	2256423169 (WP)
		Air Products & Chemicals Inc	7201 Hamilton Blvd Allentown, PA 18195	6104814911 (WP)
		Air Products & Chemicals Inc	7201 Hamilton Blvd Allentown, PA 18195	6104814911 (WP)

### General Information

AI ID: 3263 Air Products & Chemicals - St Gabriel Plant  
Activity Number: PER20020001  
Permit Number: 1280-00031-V2  
Air - Title V Regular Permit Renewal

Note: This report entitled "General Information" contains a summary of facility-level information contained in LDEQ's TEMPO database for this facility and is not considered a part of the permit.  
Please review the information contained in this document for accuracy and completeness. If any changes are required or if you have questions regarding this document, you may contact Mr. David Ferrand, Environmental Assistance Division, at (225) 219-3247 or email your changes to facupdate@lafgov.

**INVENTORIES**

AI ID: 3263 - Air Products & Chemicals - St Gabriel Plant  
 Activity Number: PER20020001  
 Permit Number: 1280-00031-V2  
 Air - Title V Regular Permit Renewal

## Subject Item Inventory:

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
EQT003	2-76: Boiler		105 MM BTU/hr	100 MM BTU/hr	.	8760 hr/yr (All Year)
EQT004	2A-76: Boiler		105 MM BTU/hr	100 MM BTU/hr	.	8760 hr/yr (All Year)
EQT005	4-76: TK-201 Storage Tank	1.13 million gallons		28.9 MM gallons/yr		8760 hr/yr (All Year)
EQT006	5-76: TK-202 Storage Tank	1.13 million gallons		26.87 MM gallons/yr		8760 hr/yr (All Year)
EQT007	6-76: TK-208 Storage Tank	250850 gallons		466667 gallons/yr		8760 hr/yr (All Year)
EQT008	8-76B: TK-210 Storage Tank	1.1 million gallons		5.33 MM gallons/yr		8760 hr/yr (All Year)
EQT009	8-76C: TK-203 Storage Tank	976371 gallons		8.87 MM gallons/yr		8760 hr/yr (All Year)
EQT010	8-76D: TK-207 Storage Solution Tank	26652 gallons				8760 hr/yr (All Year)
EQT011	8-76E: TK-217 Storage Tank	458089 gallons				8760 hr/yr (All Year)
EQT012	8-76F: TK-211 Change Tank	75000 gallons		740463 gallons/yr		8760 hr/yr (All Year)
EQT013	8-76G: TK-212 Change Tank	75000 gallons		740463 gallons/yr		8760 hr/yr (All Year)
EQT014	8-76H: TK-213 Change Tank	75000 gallons		740463 gallons/yr		8760 hr/yr (All Year)
EQT015	8-76I: TK-214 Change Tank	75000 gallons		740463 gallons/yr		8760 hr/yr (All Year)
EQT016	8-76J: TK-209 Storage Tank	1.54 million gallons		123 MM lbs/yr		8760 hr/yr (All Year)
EQT017	9-76: Loading Area					5808 hr/yr (All Year)
EQT018	10-76: T-107 Low Pressure Absorber					8760 hr/yr (All Year)
EQT019	11-76: TK-341 Storage Tank	250000 gallons		14.76 MM gallons/yr		8760 hr/yr (All Year)
EQT020	12-76: TK-343 No. 2 Fuel Oil Tank	15230 gallons		11207 gallons/yr		8760 hr/yr (All Year)
EQT021	14-76: TK-342 Storage Tank	21742 gallons		14.76 MM gallons/yr		8760 hr/yr (All Year)
EQT022	7-96: U331 Large Cooling Tower No. 1			9600 gallons/min		870 hr/yr (All Year)
EQT023	9-96: Gasoline Tank	580 gallons		4907 gallons/yr		8760 hr/yr (All Year)
EQT024	10-96: TK-324 Utilities Sulfuric Acid Tank	6500 gallons		12562 gallons/yr		8760 hr/yr (All Year)
EQT025	20-96: Sulfuric Acid Tank, TK-337	450 gallons		8375 gallons/yr		8760 hr/yr (All Year)
EQT026	39-96: U337 - Cooling Tower			3200 gallons/min		8760 hr/yr (All Year)
EQT027	40-96: T-112 Low Pressure Absorber			1244 lb/hr		8760 hr/yr (All Year)
EQT028	41-96: C-101 Process Recycle Compressor			150 horsepower		8760 hr/yr (All Year)
EQT029	42-96: C-102 Process Recycle Compressor			400 horsepower		8760 hr/yr (All Year)
EQT030	WV-06: Wastewater Unit					8760 hr/yr (All Year)
EQT031	MIPA Skid Unit Scrubber (Recovery System)					8760 hr/yr (All Year)
EQT032	1-06: TK-500 SU/SD					600 hr/yr (All Year)
FUG001	13-76: Plant Fugitive Emissions					8760 hr/yr (All Year)

## Subject Item Groups:

ID	Description	Included Components (from Above)
GRP006	Entire Facility	EQT3 2-76: Boiler
GRP006	Entire Facility	EQT4 2A-76: Boiler

**INVENTORIES**

AI ID: 3263 - Air Products & Chemicals - St Gabriel Plant  
 Activity Number: PER20020001  
 Permit Number: 1280-00031-V2  
 Air - Title V Regular Permit Renewal

**Subject Item Groups:**

ID	Description	Included Components (from Above)
GRP006	Entire Facility	EQT5 4-76; TK-201 Storage Tank
GRP006	Entire Facility	EQT6 5-76; TK-202 Storage Tank
GRP006	Entire Facility	EQT7 6-76; TK-208 Storage Tank
GRP006	Entire Facility	EQT8 8-76B; TK-210 Storage Tank
GRP006	Entire Facility	EQT9 8-76C; TK-203 Storage Tank
GRP006	Entire Facility	EQT10 8-76D; TK-207 Storage Solution Tank
GRP006	Entire Facility	EQT11 8-76E; TK-217 Storage Tank
GRP006	Entire Facility	EQT12 8-76F; TK-211 Change Tank
GRP006	Entire Facility	EQT13 8-76G; TK-212 Change Tank
GRP006	Entire Facility	EQT14 8-76H; TK-213 Change Tank
GRP006	Entire Facility	EQT15 8-76I; TK-214 Change Tank
GRP006	Entire Facility	EQT16 8-76J; TK-209 Storage Tank
GRP006	Entire Facility	EQT17 9-76; Loading Area
GRP006	Entire Facility	EQT18 10-76; T-107 Low Pressure Absorber
GRP006	Entire Facility	EQT19 11-76; TK-341 Storage Tank
GRP006	Entire Facility	EQT20 12-76; TK-343 No. 2 Fuel Oil Tank
GRP006	Entire Facility	EQT21 14-76; TK-342 Storage Tank
GRP006	Entire Facility	EQT22 7-96; U331 Large Cooling Tower No. 1
GRP006	Entire Facility	EQT23 9-96; Gasoline Tank
GRP006	Entire Facility	EQT24 10-96; TK-324 Utilities Sulfuric Acid Tank
GRP006	Entire Facility	EQT25 20-96; Sulfuric Acid Tank, TK-337
GRP006	Entire Facility	EQT26 39-96; U337 - Cooling Tower
GRP006	Entire Facility	EQT27 40-96; T-112 Low Pressure Absorber
GRP006	Entire Facility	EQT28 41-96; C-101 Process Recycle Compressor
GRP006	Entire Facility	EQT29 42-96; C-102 Process Recycle Compressor
GRP006	Entire Facility	EQT30 WW-06; Wastewater Unit
GRP006	Entire Facility	EQT31 MIPA Skid Unit Scrubber (Recovery System)
GRP006	Entire Facility	EQT32 1-06; TK-500 SU/SD
GRP006	Entire Facility	FUG1 13-76; Plant Fugitive Emissions

**Relationships:**

Subject Item	Relationship	Subject Item
EQT10 8-76D TK-207 Storage Solution Tank	Vents to	EQT31 MIPA Skid Unit Scrubber (Recovery System)
EQT11 8-76E TK-217 Storage Tank	Vents to	EQT31 MIPA Skid Unit Scrubber (Recovery System)
EQT16 8-76J TK-209 Storage Tank	Vents to	EQT31 MIPA Skid Unit Scrubber (Recovery System)
EQT31 MIPA Skid Unit Scrubber (Recovery System)	Vents to	EQT27 40-96; T-112 Low Pressure Absorber

## INVENTORIES

AI ID: 3263 - Air Products & Chemicals - St Gabriel Plant  
Activity Number: PER20020001  
Permit Number: 1280-00031-V2  
Air - Title V Regular Permit Renewal

### Stack Information:

ID		Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperature (°F)
EQT003	2-76: Boiler	28210				80	360
EQT004	2A-76: Boiler	28210				80	360
EQT028	41-96: C-101 Process Recycle Compressor					30	115
EQT029	42-96: C-102 Process Recycle Compressor					15	115

### Fee Information:

Sub Item Id	Multiplier	Units Of Measure	Fee Desc
GRP006	488	MM Lb/Yr	0630 - Organic Oxides, Alcohols, Glycols (Rated Capacity)

## SPECIFIC REQUIREMENTS

AI ID: 3263 - Air Products & Chemicals - St Gabriel Plant  
Activity Number: PER20020001  
Permit Number: 1280-00031-V2  
Air - Title V Regular Permit Renewal

### EQT003      2-76: Boiler

- 1 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). [LAC 33:III.1101.B]  
Which Months: All Year Statistical Basis: None specified
- 2 Total suspended particulate <= 0.6 lb/MMBTU of heat input (Complies by using sweet natural gas as fuel). [LAC 33:III.1313.C]  
Which Months: All Year Statistical Basis: None specified
- 3 Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]
- 4 Nitrogen oxides <= 0.2 lb/MMBTU. [LAC 33:III.2201.D.1]  
Which Months: May-Sep Statistical Basis: Thirty-day rolling average
- 5 Fuel monitored by totalizer continuously. Monitor fuel usage with a totalizing fuel meter. [LAC 33:III.2201.H.1.a.i]  
Which Months: May-Sep Statistical Basis: None specified
- 6 Submit report: Due within 90 days of the end of each quarter for any noncompliance of the applicable emission limitations of LAC 33:III.2201.D or E. Include the information specified in LAC 33:III.2201.I.2.a through I.2.d. [LAC 33:III.2201.1.2]
- 7 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records of the information specified in LAC 33:III.2201.I.3 and I.4 as applicable. [LAC 33:III.2201.I]

### EQT004      2A-76: Boiler

- 8 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). [LAC 33:III.1101.B]  
Which Months: All Year Statistical Basis: None specified
- 9 Total suspended particulate <= 0.6 lb/MMBTU of heat input (Complies by using sweet natural gas as fuel). [LAC 33:III.1313.C]  
Which Months: All Year Statistical Basis: None specified
- 10 Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]
- 11 Nitrogen oxides <= 0.2 lb/MMBTU. [LAC 33:III.2201.D.1]  
Which Months: May-Sep Statistical Basis: Thirty-day rolling average
- 12 Fuel monitored by totalizer continuously. Monitor fuel usage with a totalizing fuel meter. [LAC 33:III.2201.H.1.a.i]  
Which Months: May-Sep Statistical Basis: None specified
- 13 Fuel recordkeeping by electronic or hard copy daily. Record fuel gas composition. [LAC 33:III.2201.H.9]  
14 Submit report: Due within 90 days of the end of each quarter for any noncompliance of the applicable emission limitations of LAC 33:III.2201.D or E. Include the information specified in LAC 33:III.2201.I.2.a through I.2.d. [LAC 33:III.2201.I.2]
- 15 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records of the information specified in LAC 33:III.2201.I.3 and I.4 as applicable. [LAC 33:III.2201.I]

### EQT005      4-76: TK-201 Storage Tank

## SPECIFIC REQUIREMENTS

AI ID: 3263 - Air Products & Chemicals - St Gabriel Plant

Activity Number: PER20020001

Permit Number: 1280-00031-V2

Air - Title V Regular Permit Renewal

### EQT005 4-76: TK-201 Storage Tank

- 16 Equip with a submerged fill pipe. [LAC 33:III.2103.B]
- 17 Equip internal floating roof with a mechanical shoe seal (metallic-type shoe seal) consisting of a metal sheet held vertically against the wall of the storage vessel by springs or weighted levers and connected by braces to the floating roof. A flexible coated fabric (envelope) spans the annular space between the metal sheet and the floating roof. [LAC 33:III.2103.C.1.b]
- 18 Provide each opening in the internal floating roof (except rim space vents and automatic bleeder vents) with a projection below the liquid surface. In addition, provide each opening (except for leg sleeves, bleeder vents, rim space vents, column wells, ladder wells, sample wells, and stub drains) with a cover equipped with a gasket. Equip automatic bleeder vents and rim space vents with gaskets and equip ladder wells with a sliding cover. [LAC 33:III.2103.C.2]
- 19 Equip with an internal floating roof consisting of a pontoon type roof, double deck roof, or internal floating cover which will rest or float on the surface of the liquid contents and is equipped with a closure seal to close the space between the roof edge and tank wall. All tank gauging and sampling devices will be gas-tight except when gauging or sampling is taking place. [LAC 33:III.2103.C]
- 20 Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e. [LAC 33:III.2103.H.3]
- 21 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable. [LAC 33:III.2103.I]

### EQT006 5-76: TK-202 Storage Tank

- 22 Equip with a submerged fill pipe. [LAC 33:III.2103.B]
- 23 Equip internal floating roof with a mechanical shoe seal (metallic-type shoe seal) consisting of a metal sheet held vertically against the wall of the storage vessel by springs or weighted levers and connected by braces to the floating roof. A flexible coated fabric (envelope) spans the annular space between the metal sheet and the floating roof. [LAC 33:III.2103.C.1.b]
- 24 Provide each opening in the internal floating roof (except rim space vents and automatic bleeder vents) with a projection below the liquid surface. In addition, provide each opening (except for leg sleeves, bleeder vents, rim space vents, column wells, ladder wells, sample wells, and stub drains) with a cover equipped with a gasket. Equip automatic bleeder vents and rim space vents with gaskets and equip ladder wells with a sliding cover. [LAC 33:III.2103.C.2]
- 25 Equip with an internal floating roof consisting of a pontoon type roof, double deck roof, or internal floating cover which will rest or float on the surface of the liquid contents and is equipped with a closure seal to close the space between the roof edge and tank wall. All tank gauging and sampling devices will be gas-tight except when gauging or sampling is taking place. [LAC 33:III.2103.C]
- 26 Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e. [LAC 33:III.2103.H.3]
- 27 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable. [LAC 33:III.2103.I]

### EQT007 6-76: TK-208 Storage Tank

- 28 Equip with a submerged fill pipe. [LAC 33:III.2103.B]
- 29 Equip internal floating roof with a mechanical shoe seal (metallic-type shoe seal) consisting of a metal sheet held vertically against the wall of the storage vessel by springs or weighted levers and connected by braces to the floating roof. A flexible coated fabric (envelope) spans the annular space between the metal sheet and the floating roof. [LAC 33:III.2103.C.1.b]
- 30 Provide each opening in the internal floating roof (except rim space vents and automatic bleeder vents) with a projection below the liquid surface. In addition, provide each opening (except for leg sleeves, bleeder vents, rim space vents, column wells, ladder wells, sample wells, and stub drains) with a cover equipped with a gasket. Equip automatic bleeder vents and rim space vents with gaskets and equip ladder wells with a sliding cover. [LAC 33:III.2103.C.2]

## SPECIFIC REQUIREMENTS

AI ID: 3263 - Air Products & Chemicals - St Gabriel Plant

Activity Number: PER20020001

Permit Number: 1280-00031-V2

Air - Title V Regular Permit Renewal

### EQT007      6-76: TK-208 Storage Tank

- 31 Equip with an internal floating roof consisting of a pontoon type roof, double deck roof, or internal floating cover which will rest or float on the surface of the liquid contents and is equipped with a closure seal to close the space between the roof edge and tank wall. All tank gauging and sampling devices will be gas-tight except when gauging or sampling is taking place. [LAC 33:III.2103.C]
- 32 Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e. [LAC 33:III.2103.H.3]
- 33 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable. [LAC 33:III.2103.I]

### EQT008      8-76B: TK-210 Storage Tank

- 34 Equip with a submerged fill pipe. [LAC 33:III.2103.B]
- 35 Equip internal floating roof with a mechanical shoe seal (metallic-type shoe seal) consisting of a metal sheet held vertically against the wall of the storage vessel by springs or weighted levers and connected by braces to the floating roof. A flexible coated fabric (envelope) spans the annular space between the metal sheet and the floating roof. [LAC 33:III.2103.C.1.b]
- 36 Provide each opening in the internal floating roof (except rim space vents and automatic bleeder vents) with a projection below the liquid surface. In addition, provide each opening (except for leg sleeves, bleeder vents, rim space vents, column wells, ladder wells, sample wells, and stub drains) with a cover equipped with a gasket. Equip automatic bleeder vents and rim space vents with gaskets and equip ladder wells with a sliding cover. [LAC 33:III.2103.C.2]
- 37 Equip with an internal floating roof consisting of a pontoon type roof, double deck roof, or internal floating cover which will rest or float on the surface of the liquid contents and is equipped with a closure seal to close the space between the roof edge and tank wall. All tank gauging and sampling devices will be gas-tight except when gauging or sampling is taking place. [LAC 33:III.2103.C]
- 38 Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e. [LAC 33:III.2103.H.3]
- 39 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable. [LAC 33:III.2103.I]

### EQT009      8-76C: TK-203 Storage Tank

- 40 Equip with a submerged fill pipe. [LAC 33:III.2103.B]
- 41 Equip internal floating roof with a mechanical shoe seal (metallic-type shoe seal) consisting of a metal sheet held vertically against the wall of the storage vessel by springs or weighted levers and connected by braces to the floating roof. A flexible coated fabric (envelope) spans the annular space between the metal sheet and the floating roof. [LAC 33:III.2103.C.1.b]
- 42 Provide each opening in the internal floating roof (except rim space vents and automatic bleeder vents) with a projection below the liquid surface. In addition, provide each opening (except for leg sleeves, bleeder vents, rim space vents, column wells, ladder wells, sample wells, and stub drains) with a cover equipped with a gasket. Equip automatic bleeder vents and rim space vents with gaskets and equip ladder wells with a sliding cover. [LAC 33:III.2103.C.2]
- 43 Equip with an internal floating roof consisting of a pontoon type roof, double deck roof, or internal floating cover which will rest or float on the surface of the liquid contents and is equipped with a closure seal to close the space between the roof edge and tank wall. All tank gauging and sampling devices will be gas-tight except when gauging or sampling is taking place. [LAC 33:III.2103.C]
- 44 Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e. [LAC 33:III.2103.H.3]
- 45 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable. [LAC 33:III.2103.I]

## SPECIFIC REQUIREMENTS

AI ID: 3263 - Air Products & Chemicals - St Gabriel Plant  
Activity Number: PER20020001  
Permit Number: 1280-00031-V2  
Air - Title V Regular Permit Renewal

### EQT010      8-76D: TK-207 Storage Solution Tank

- 46 Equip with a submerged fill pipe. [LAC 33:III.2103.B]  
47 VOC, Total  $\geq 90\%$  control efficiency using a vapor loss control system. This limitation does not apply during periods of planned routine maintenance which may not exceed 240 hours per year. [LAC 33:III.2103.E.2]  
Which Months: All Year Statistical Basis: None specified  
48 Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e. [LAC 33:III.2103.H.3]  
49 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable. [LAC 33:III.2103.I]

### EQT011      8-76E: TK-217 Storage Tank

- 50 Equip with a submerged fill pipe. [LAC 33:III.2103.B]  
51 VOC, Total  $\geq 90\%$  control efficiency using a vapor loss control system. This limitation does not apply during periods of planned routine maintenance which may not exceed 240 hours per year. [LAC 33:III.2103.E.2]  
Which Months: All Year Statistical Basis: None specified  
52 Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e. [LAC 33:III.2103.H.3]  
53 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable. [LAC 33:III.2103.I]

### EQT012      8-76F: TK-211 Change Tank

- 54 Equip with a submerged fill pipe. [LAC 33:III.2103.B]  
55 Equip internal floating roof with a mechanical shoe seal (metallic-type shoe seal) consisting of a metal sheet held vertically against the wall of the storage vessel by springs or weighted levers and connected by braces to the floating roof. A flexible coated fabric (envelope) spans the annular space between the metal sheet and the floating roof. [LAC 33:III.2103.C.1.b]  
56 Provide each opening in the internal floating roof (except rim space vents and automatic bleeder vents) with a projection below the liquid surface. In addition, provide each opening (except for leg sleeves, bleeder vents, rim space vents, column wells, ladder wells, sample wells, and stub drains) with a cover equipped with a gasket. Equip automatic bleeder vents and rim space vents with gaskets and equip ladder wells with a sliding cover. [LAC 33:III.2103.C.2]  
57 Equip with an internal floating roof consisting of a pontoon type roof, double deck roof, or internal floating cover which will rest or float on the surface of the liquid contents and is equipped with a closure seal to close the space between the roof edge and tank wall. All tank gauging and sampling devices will be gas-tight except when gauging or sampling is taking place. [LAC 33:III.2103.C]  
58 Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e. [LAC 33:III.2103.H.3]  
59 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable. [LAC 33:III.2103.I]

### EQT013      8-76G: TK-212 Change Tank

- 60 Equip with a submerged fill pipe. [LAC 33:III.2103.B]  
61 Equip internal floating roof with a mechanical shoe seal (metallic-type shoe seal) consisting of a metal sheet held vertically against the wall of the storage vessel by springs or weighted levers and connected by braces to the floating roof. A flexible coated fabric (envelope) spans the annular space between the metal sheet and the floating roof. [LAC 33:III.2103.C.1.b]

## SPECIFIC REQUIREMENTS

AI ID: 3263 - Air Products & Chemicals - St Gabriel Plant

Activity Number: PER20020001

Permit Number: 1280-00031-V2

Air - Title V Regular Permit Renewal

### EQT013 8-76G: TK-212 Change Tank

- 62 Provide each opening in the internal floating roof (except rim space vents and automatic bleeder vents) with a projection below the liquid surface. In addition, provide each opening (except for leg sleeves, bleeder vents, rim space vents, column wells, ladder wells, sample wells, and stub drains) with a cover equipped with a gasket. Equip automatic bleeder vents and rim space vents with gaskets and equip ladder wells with a sliding cover. [LAC 33:III.2103.C.2]
- 63 Equip with an internal floating roof consisting of a pontoon type roof, double deck roof, or internal floating cover which will rest or float on the surface of the liquid contents and is equipped with a closure seal to close the space between the roof edge and tank wall. All tank gauging and sampling devices will be gas-tight except when gauging or sampling is taking place. [LAC 33:III.2103.C.]
- 64 Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e. [LAC 33:III.2103.H.3]
- 65 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable. [LAC 33:III.2103.I.]

### EQT014 8-76H: TK-213 Change Tank

- 66 Equip with a submerged fill pipe. [LAC 33:III.2103.B]
- 67 Equip internal floating roof with a mechanical shoe seal (metallic-type shoe seal) consisting of a metal sheet held vertically against the wall of the storage vessel by springs or weighted levers and connected by braces to the floating roof. A flexible coated fabric (envelope) spans the annular space between the metal sheet and the floating roof. [LAC 33:III.2103.C.1.b]
- 68 Provide each opening in the internal floating roof (except rim space vents and automatic bleeder vents) with a projection below the liquid surface. In addition, provide each opening (except for leg sleeves, bleeder vents, rim space vents, column wells, ladder wells, sample wells, and stub drains) with a cover equipped with a gasket. Equip automatic bleeder vents and rim space vents with gaskets and equip ladder wells with a sliding cover. [LAC 33:III.2103.C.2]
- 69 Equip with an internal floating roof consisting of a pontoon type roof, double deck roof, or internal floating cover which will rest or float on the surface of the liquid contents and is equipped with a closure seal to close the space between the roof edge and tank wall. All tank gauging and sampling devices will be gas-tight except when gauging or sampling is taking place. [LAC 33:III.2103.C.]
- 70 Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e. [LAC 33:III.2103.H.3]
- 71 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable. [LAC 33:III.2103.I.]

### EQT015 8-76I: TK-214 Change Tank

- 72 Equip with a submerged fill pipe. [LAC 33:III.2103.B]
- 73 Equip internal floating roof with a mechanical shoe seal (metallic-type shoe seal) consisting of a metal sheet held vertically against the wall of the storage vessel by springs or weighted levers and connected by braces to the floating roof. A flexible coated fabric (envelope) spans the annular space between the metal sheet and the floating roof. [LAC 33:III.2103.C.1.b]
- 74 Provide each opening in the internal floating roof (except rim space vents and automatic bleeder vents) with a projection below the liquid surface. In addition, provide each opening (except for leg sleeves, bleeder vents, rim space vents, column wells, ladder wells, sample wells, and stub drains) with a cover equipped with a gasket. Equip automatic bleeder vents and rim space vents with gaskets and equip ladder wells with a sliding cover. [LAC 33:III.2103.C.2]
- 75 Equip with an internal floating roof consisting of a pontoon type roof, double deck roof, or internal floating cover which will rest or float on the surface of the liquid contents and is equipped with a closure seal to close the space between the roof edge and tank wall. All tank gauging and sampling devices will be gas-tight except when gauging or sampling is taking place. [LAC 33:III.2103.C.]
- 76 Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e. [LAC 33:III.2103.H.3]

## SPECIFIC REQUIREMENTS

AI ID: 3263 - Air Products & Chemicals - St Gabriel Plant  
Activity Number: PER20020001  
Permit Number: 1280-00031-V2  
Air - Title V Regular Permit Renewal

### EQT015      8-76I: TK-214 Change Tank

77 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable. [LAC 33:III.2103.]

### EQT016      8-76J: TK-209 Storage Tank

78 Equip with a submerged fill pipe. [LAC 33:III.2103.B]

79 VOC, Total  $\geq 90\%$  control efficiency using a vapor loss control system. This limitation does not apply during periods of planned routine maintenance which may not exceed 240 hours per year. [LAC 33:III.2103.E.2]

Which Months: All Year    Statistical Basis: None specified

80 Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e. [LAC 33:III.2103.H.3]

81 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable. [LAC 33:III.2103.]

### EQT017      9-76: Loading Area

82 Equip with a vapor collection system consisting of, at a minimum, a vapor return line which returns all vapors displaced during loading to the VOC dispensing vessel or to a disposal system. [LAC 33:III.2107.B]

83 VOC, Total  $\geq 90\%$  DRE, using a vapor disposal system. [LAC 33:III.2107.B]

Which Months: All Year    Statistical Basis: None specified

84 Prevent spills during the attachment and disconnection of filling lines or arms. Equip loading and vapor lines with fittings which close automatically when disconnected, or equip to permit residual VOC in the loading line to discharge into a collection system or disposal or recycling system. [LAC 33:III.2107.B]

85 VOC, Total monitored by visual, audible, and/or olfactory during loading or unloading, to detect leaks. [LAC 33:III.2107.C]

Which Months: All Year    Statistical Basis: None specified

86 Discontinue loading or unloading through the affected transfer lines when a leak is observed; do not resume loading or unloading until the observed leak is repaired. [LAC 33:III.2107.C]

87 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2107.D.1 and 2. [LAC 33:III.2107.D]

88 Submit Notification: Due at the DEQ upon the establishment or reestablishment of any exceedance or excursion level, for purposes of responding to and reporting exceedances or excursions under 40 CFR 64.7 and 64.8. [40 CFR 64.6(c)(2)]

89 An excursion or exceedance is defined as when the annual average TOC concentration of the water exceeds 78,200 ppm. [40 CFR 64.6(c)(2)]

90 Equipment/operational data recordkeeping by electronic or hard copy continuously. [40 CFR 64.6(c)(4)]

91 Conduct the monitoring required under 40 CFR 64 upon issuance of a part 70 or 71 permit that includes such monitoring, or by such later date specified in the permit pursuant to 40 CFR 64.6(d). [40 CFR 64.7(a)]

92 Maintain the monitoring required under 40 CFR 64 at all times, including but not limited to maintaining necessary parts for routine repairs of the monitoring equipment. [40 CFR 64.7(b)]

93 Restore operation of the pollutant-specific emissions unit (including the control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable upon detecting an excursion or exceedance, in accordance with good air pollution control practices for minimizing emissions. Minimize the period of any startup, shutdown or malfunction, and take any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). [40 CFR 64.7(d)(1)]

## SPECIFIC REQUIREMENTS

AI ID: 3263 - Air Products & Chemicals - St Gabriel Plant

Activity Number: PER20020001

Permit Number: 1280-00031-V2

Air - Title V Regular Permit Renewal

### EQT019 976: Loading Area

- 94 Submit report: Due on and after the date specified in 40 CFR 64.7(a) by which the owner or operator must use monitoring that meets the requirements of 40 CFR 64. Submit monitoring reports to the DEQ in accordance with 40 CFR 70.6(a)(3)(iii). Include in a report for monitoring under 40 CFR 64, at a minimum, the information required under 40 CFR 70.6(a)(3)(iii) and the information specified in 40 CFR 64.9(a)(2)(i) through (a)(2)(iii), as applicable. [40 CFR 64.9(a)]
- 95 Comply with the recordkeeping requirements specified in 40 CFR 70.6(a)(3)(ii). [40 CFR 64.9(b)(1)]
- 96 Monitoring data recordkeeping by electronic or hard copy continuously. Maintain these records for a period of at least five years. [40 CFR 64.9(b)(1)]
- 97 Equipment/operational data recordkeeping by electronic or hard copy continuously. Maintain records of monitor performance data, corrective actions taken, any written quality improvement plan required pursuant to 40 CFR 64.8 and any activities undertaken to implement a quality improvement plan, and other supporting information required to be maintained under 40 CFR 64 (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions). Maintain these records for a period of at least five years. [40 CFR 64.9(b)(1)]

### EQT019 11-76: TK-341 Storage Tank

- 98 Equip with a submerged fill pipe. [LAC 33:III.2103.B]

- 99 Equip internal floating roof with a mechanical shoe seal (metallic-type shoe seal) consisting of a metal sheet held vertically against the wall of the storage vessel by springs or weighted levers and connected by braces to the floating roof. A flexible coated fabric (envelope) spans the annular space between the metal sheet and the floating roof. [LAC 33:III.2103.C.1.b]

- 100 Provide each opening in the internal floating roof (except rim space vents and automatic bleeder vents) with a projection below the liquid surface. In addition, provide each opening (except for leg sleeves, bleeder vents, rim space vents, column wells, ladder wells, sample wells, and stub drains) with a cover equipped with a gasket. Equip automatic bleeder vents and rim space vents with gaskets and equip ladder wells with a sliding cover. [LAC 33:III.2103.C.2]

- 101 Equip with an internal floating roof consisting of a pontoon type roof, double deck roof, or internal floating cover which will rest or float on the surface of the liquid contents and is equipped with a closure seal to close the space between the roof edge and tank wall. All tank gauging and sampling devices will be gas-tight except when gauging or sampling is taking place. [LAC 33:III.2103.C]

- 102 Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e. [LAC 33:III.2103.H.3]

- 103 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable. [LAC 33:III.2103.I]

### EQT021 14-76: TK-342 Storage Tank

- 104 Equip with a submerged fill pipe. [LAC 33:III.2103.B]

- 105 Equip internal floating roof with a mechanical shoe seal (metallic-type shoe seal) consisting of a metal sheet held vertically against the wall of the storage vessel by springs or weighted levers and connected by braces to the floating roof. A flexible coated fabric (envelope) spans the annular space between the metal sheet and the floating roof. [LAC 33:III.2103.C.1.b]

- 106 Provide each opening in the internal floating roof (except rim space vents and automatic bleeder vents) with a projection below the liquid surface. In addition, provide each opening (except for leg sleeves, bleeder vents, rim space vents, column wells, ladder wells, sample wells, and stub drains) with a cover equipped with a gasket. Equip automatic bleeder vents and rim space vents with gaskets and equip ladder wells with a sliding cover. [LAC 33:III.2103.C.2]

- 107 Equip with an internal floating roof consisting of a pontoon type roof, double deck roof, or internal floating cover which will rest or float on the surface of the liquid contents and is equipped with a closure seal to close the space between the roof edge and tank wall. All tank gauging and sampling devices will be gas-tight except when gauging or sampling is taking place. [LAC 33:III.2103.C]

- 108 Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e. [LAC 33:III.2103.H.3]

## SPECIFIC REQUIREMENTS

AI ID: 3263 - Air Products & Chemicals - St Gabriel Plant  
Activity Number: PER20020001  
Permit Number: 1280-00031-V2  
Air - Title V Regular Permit Renewal

### EQT021 14-76: TK-342 Storage Tank

109 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable. [LAC 33:III.2103.I.]

### EQT023 9-96: Gasoline Tank

- 110 Equip with a submerged fill pipe. [LAC 33:III.2103.A]
- 111 Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e. [LAC 33:III.2103.H.3]
- 112 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable. [LAC 33:III.2103.I.]

### EQT027 40-96: T-112 Low Pressure Absorber

- 113 Total Organic Compounds (TOC)  $\geq 98\%$  reduction by weight, or TOC  $<= 20$  ppmv, on a dry basis corrected to 3% oxygen, whichever is less stringent. [LAC 33:III.2147.C.1.a]
- Which Months: All Year Statistical Basis: None specified
- 114 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in LAC 33:III.2147.F.1 through F.4, as applicable. [LAC 33:III.2147.F]
- 115 Makeup water flow  $\geq 5$  gpm; Temperature Rise  $\leq 20$  Deg F, average hourly basis; Record once per shift. [LAC 33:III.501.c.6]

### EQT028 41-96: C-101 Process Recycle Compressor

- 116 Equip all rotary pumps and compressors handling volatile organic compounds having a true vapor pressure of 1.5 psia or greater at handling conditions with mechanical seals or other equivalent equipment. [LAC 33:III.2111]
- 117 Repair according to LAC 33:III.2122.C.3 any regulated component observed leaking by sight, sound, or smell, regardless of the leak's concentration, except those covered under LAC 33:III.2122.C.1.d. [LAC 33:III.2122.C.1.c]
- 118 Make every reasonable effort to repair a leaking component, as described in LAC 33:III.2122, within 15 days, except as provided. [LAC 33:III.2122.C.3]
- 119 Determine the percent of leaking components at a process unit for a test period using the equation in LAC 33:III.2122.C.4. [LAC 33:III.2122.C.4]
- 120 Determine the total percent of leaking and unrepairable components using the equation in LAC 33:III.2122.C.5. [LAC 33:III.2122.C.5]
- 121 Compressor seals: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 quarterly (four times a year). If a reading of 5,000 ppmv or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III.2122.C.3. [LAC 33:III.2122.D.1.b.i]
- Which Months: All Year Statistical Basis: None specified
- 122 Flanged connectors: Presence of a leak monitored by visual, audible, and/or olfactory weekly. [LAC 33:III.2122.D.1.d.i]
- Which Months: All Year Statistical Basis: None specified
- 123 Instrumentation systems: Presence of a leak monitored by visual, audible, and/or olfactory weekly. [LAC 33:III.2122.D.1.e]
- Which Months: All Year Statistical Basis: None specified
- 124 All components: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 upon each occurrence of a leak detected by sight, smell, or sound, unless electing to implement actions as specified in LAC 33:III.2122.C.3. [LAC 33:III.2122.D.3.b]
- Which Months: All Year Statistical Basis: None specified
- 125 When a component which has a leak that cannot be repaired, as described in LAC 33:III.2122.C, is located, affix to the leaking component a weatherproof and readily visible tag bearing an identification number and the date the leak is located. Remove the tag after the leak has been repaired. [LAC 33:III.2122.F.1]

## SPECIFIC REQUIREMENTS

AI ID: 3263 - Air Products & Chemicals - St Gabriel Plant

Activity Number: PER20020001

Permit Number: 1280-00031-V2

Air - Title V Regular Permit Renewal

### EQT028 41-96: C-101 Process Recycle Compressor

- 126 Equipment/operational data recordkeeping by survey log upon each occurrence of a leak. Include the leaking component information specified in LAC 33:III.2122.F.2.a through j. Retain the survey log for two years after the latter date specified in LAC 33:III.2122.F.2 and make said log available to DEQ upon request. [LAC 33:III.2122.F]
- 127 Submit report: Due semiannually, by the 31st of January and July, to the Office of Environmental Assessment, Air Quality Assessment Division. Include the information specified in LAC 33:III.2122.G.1 through 6 for each calendar quarter during the reporting period. [LAC 33:III.2122.G]
- 128 Comply with 40 CFR 60 Subpart VV by implementing the Louisiana Consolidated Fugitive Emission Program Guidelines. Compliance is achieved through compliance with LAC 33:III.2122. [LAC 33:III.501.]

### EQT029 42-96: C-102 Process Recycle Compressor

- 129 Equip all rotary pumps and compressors handling volatile organic compounds having a true vapor pressure of 1.5 psia or greater at handling conditions with mechanical seals or other equivalent equipment. [LAC 33:III.2111.]
- 130 Repair according to LAC 33:III.2122.C.3 any regulated component observed leaking by sight, sound, or smell, regardless of the leak's concentration, except those covered under LAC 33:III.2122.C.1.d. [LAC 33:III.2122.C.1.c]
- 131 Make every reasonable effort to repair a leaking component, as described in LAC 33:III.2122, within 15 days, except as provided. [LAC 33:III.2122.C.3]
- 132 Determine the percent of leaking components at a process unit for a test period using the equation in LAC 33:III.2122.C.4. [LAC 33:III.2122.C.4]
- 133 Determine the total percent of leaking and unrepairable components using the equation in LAC 33:III.2122.C.5. [LAC 33:III.2122.C.5]
- 134 Compressor seals: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 quarterly (four times a year). If a reading of 5,000 ppmv or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III.2122.C.3. [LAC 33:III.2122.D.1.b.i.]
- Which Months: All Year Statistical Basis: None specified
- 135 All components: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 upon each occurrence of a leak detected by sight, smell, or sound, unless electing to implement actions as specified in LAC 33:III.2122.C.3. [LAC 33:III.2122.D.3.b]
- Which Months: All Year Statistical Basis: None specified
- 136 When a component which has a leak that cannot be repaired, as described in LAC 33:III.2122.C, is located, affix to the leaking component a weatherproof and readily visible tag bearing an identification number and the date the leak is located. Remove the tag after the leak has been repaired. [LAC 33:III.2122.F.1]
- 137 Equipment/operational data recordkeeping by survey log upon each occurrence of a leak. Include the leaking component information specified in LAC 33:III.2122.F.2.a through j. Retain the survey log for two years after the latter date specified in LAC 33:III.2122.F.2 and make said log available to DEQ upon request. [LAC 33:III.2122.F]
- 138 Submit report: Due semiannually, by the 31st of January and July, to the Office of Environmental Assessment, Air Quality Assessment Division. Include the information specified in LAC 33:III.2122.G.1 through 6 for each calendar quarter during the reporting period. [LAC 33:III.2122.G]
- 139 Comply with 40 CFR 60 Subpart VV by implementing the Louisiana Consolidated Fugitive Emission Program Guidelines. Compliance is achieved through compliance with LAC 33:III.2122. [LAC 33:III.501.]

### EQT030 WW-06: Wastewater Unit

- 140 Comply with all applicable provisions 40 CFR 60 Subpart YYY - Standards of Performance for VOC Emissions from Organic Chemical Manufactury Industry (SOCMI) Wasterwater. [40 CFR 60]

### FUG001 13-76: Plant Fugitive Emissions

- 141 Equip all rotary pumps and compressors handling volatile organic compounds having a true vapor pressure of 1.5 psia or greater at handling conditions with mechanical seals or other equivalent equipment. [LAC 33:III.2111.]

## SPECIFIC REQUIREMENTS

AI ID: 3263 - Air Products & Chemicals - St Gabriel Plant  
Activity Number: PER20020001  
Permit Number: 1280-00031-V2  
Air - Title V Regular Permit Renewal

### FUG001 13-76: Plant Fugitive Emissions

- 142 Repair according to LAC 33:III.2122.C.3 any regulated component observed leaking by sight, sound, or smell, regardless of the leak's concentration, except those covered under LAC 33:III.2122.C.1.d. [LAC 33:III.2122.C.1.c]
- 143 Do not locate any valve, except safety pressure relief valves, at the end of a pipe or line containing volatile organic compounds unless the end of such line is sealed with a second valve, a blind flange, a plug, or a cap. Remove such sealing devices only when the line is in use, for example, when a sample is being taken. When the line has been used and is subsequently resealed, close the upstream valve first, followed by the sealing device. [LAC 33:III.2122.C.2]
- 144 Make every reasonable effort to repair a leaking component, as described in LAC 33:III.2122, within 15 days, except as provided. [LAC 33:III.2122.C.3]
- 145 Determine the percent of leaking components at a process unit for a test period using the equation in LAC 33:III.2122.C.4. [LAC 33:III.2122.C.4]
- 146 Determine the total percent of leaking and unrepairable components using the equation in LAC 33:III.2122.C.5. [LAC 33:III.2122.C.5]
- 147 Compressor seals: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 quarterly (four times a year). If a reading of 5,000 ppmv or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III.2122.C.3. [LAC 33:III.2122.D.1.b.ii]
- Which Months: All Year Statistical Basis: None specified
- 148 Valves in light liquid service: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 quarterly (four times a year). If a reading of 1,000 ppmv or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III.2122.D.1.b.iii] [LAC 33:III.2122.E (skip period provisions)]
- Which Months: All Year Statistical Basis: None specified
- 149 Pumps in light liquid service: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 quarterly (four times a year). If a reading of 5,000 ppmv or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III.2122.C.3. Permittee may elect to comply with the alternate standards for valves in LAC 33:III.2122.E (skip period provisions). [LAC 33:III.2122.D.1.b.iv]
- Which Months: All Year Statistical Basis: None specified
- 150 Valves in gas service: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 quarterly (four times a year). If a reading of 1,000 ppmv or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III.2122.C.3. Permittee may elect to comply with the alternate standards for valves in LAC 33:III.2122.E (skip period provisions). [LAC 33:III.2122.D.1.b.v]
- Which Months: All Year Statistical Basis: None specified
- 151 Pumps: Seal or closure mechanism monitored by visual inspection/determination weekly (52 times a year). [LAC 33:III.2122.D.1.c]
- Which Months: All Year Statistical Basis: None specified
- 152 Flanged connectors: Presence of a leak monitored by visual, audible, and/or olfactory weekly. [LAC 33:III.2122.D.1.d.i]
- Which Months: All Year Statistical Basis: None specified
- 153 Flanged connectors: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 quarterly. [LAC 33:III.2122.D.1.d.ii]
- Which Months: All Year Statistical Basis: None specified
- 154 Instrumentation systems: Presence of a leak monitored by visual, audible, and/or olfactory weekly. [LAC 33:III.2122.D.1.e]
- Which Months: All Year Statistical Basis: None specified
- 155 Pressure relief valves: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 within 24 hours after venting to the atmosphere. If a reading of 1,000 ppmv or greater (for petroleum refineries, SOCMI, MTBE, and polymer manufacturing industry) or 2,500 ppmv or greater (for natural gas processing plants) is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III.2122.C.3. [LAC 33:III.2122.D.3.a]
- Which Months: All Year Statistical Basis: None specified
- 156 All components: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 upon each occurrence of a leak detected by sight, smell, or sound, unless electing to implement actions as specified in LAC 33:III.2122.C.3. [LAC 33:III.2122.D.3.b]
- Which Months: All Year Statistical Basis: None specified
- 157 Inaccessible valves: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 annually (at a minimum). [LAC 33:III.2122.D.3.c]
- Which Months: All Year Statistical Basis: None specified

## SPECIFIC REQUIREMENTS

AI ID: 3263 - Air Products & Chemicals - St Gabriel Plant  
Activity Number: PER20020001  
Permit Number: 1280-00031-V2  
Air - Title V Regular Permit Renewal

### **13-76: Plant Fugitive Emissions**

#### **FUG001**

158 Unsafe-to-monitor valves: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 upon each occurrence of conditions allowing these valves to be monitored safely.  
[LAC 33:III.2122.D.3.d]

159 When a component which has a leak that cannot be repaired, as described in LAC 33:III.2122.C, is located, affix to the leaking component a weatherproof and readily visible tag bearing an identification number and the date the leak is located. Remove the tag after the leak has been repaired. [LAC 33:III.2122.F.1]

160 Equipment/operational data recordkeeping by survey log upon each occurrence of a leak. Include the leaking component information specified in LAC 33:III.2122.F.2.a through j. Retain the survey log for two years after the latter date specified in LAC 33:III.2122.F.2 and make said log available to DEQ upon request. [LAC 33:III.2122.F]

161 Submit report Due semiannually, by the 31st of January and July, to the Office of Environmental Assessment, Air Quality Assessment Division. Include the information specified in LAC 33:III.2122.G.1 through 6 for each calendar quarter during the reporting period. [LAC 33:III.2122.G]

162 Fugitive emission piping components may be added to or removed from the permitted units, without triggering the need to apply for a permit modification, provided:

- a) Changes in components involve routine maintenance or are undertaken to address safety concerns, or involve small piping revisions with no associated emissions increases except from the fugitive emission components themselves;
- b) The changes do not involve any associated increase in production rate or capacity, or tie in of new or modified process equipment other than the piping of the components;
- c) Actual emission following the changes will not exceed the emission limits contained in this permit;
- d) The components are promptly incorporated into any applicable leak detection and repair program.

[LAC 33:III.501.C.6]

163 Comply with 40 CFR 60 Subpart VV by implementing the Louisiana Consolidated Fugitive Emission Program Guidelines. Compliance is achieved through compliance with LAC 33:III.2122. [LAC 33:III.501]

#### **GRP006**

#### **Entire Facility**

164 Emissions of smoke which pass onto or across a public road and create a traffic hazard by impairment of visibility as defined in LAC 33:III.111 or intensify an existing traffic hazard condition are prohibited. [LAC 33:III.1103]

165 Outdoor burning of waste material or other combustible material is prohibited. [LAC 33:III.1109.B]

166 Emissions of particulate matter which pass onto or across a public road and create a traffic hazard by impairment of visibility or intensify an existing traffic hazard condition are prohibited. [LAC 33:III.1303.B]

167 Maintain best practical housekeeping and maintenance practices at the highest possible standards to reduce the quantity of organic compounds emissions. Good housekeeping shall include, but not be limited to, the practices listed in LAC 33:III.2113.A.1-5. [LAC 33:III.2113.A]

168 Failure to pay the prescribed application fee or annual fee as provided herein, within 90 days after the due date, will constitute a violation of these regulations and shall subject the person to applicable enforcement actions under the Louisiana Environmental Quality Act including, but not limited to, revocation or suspension of the applicable permit, license, registration, or variance. [LAC 33:III.219]

## SPECIFIC REQUIREMENTS

AI ID: 3263 - Air Products & Chemicals - St Gabriel Plant  
Activity Number: PER20020001  
Permit Number: 1280-00031-V2  
Air - Title V Regular Permit Renewal

### GRP006      **Entire Facility**

169 Permittee shall comply with the requirements of the LDEQ-approved Optional Compliance Plan of April 12, 2006 during the Ozone Season (May 1 - September 30), including, but not limited to (excluding startup and shutdown):

- a. Recording the daily natural gas and process gas usage in each boiler;
  - b. Maintaining and operating the fuel flowmeters to achieve a 90% minimum data availability during the actual operating hours for the Ozone Season;
  - c. Recording the oxygen concentration in each boiler;
  - d. Maintaining and operating the oxygen monitors to achieve a 90% minimum data availability during the actual operating hours for the Ozone Season;
  - e. Operating each boiler to achieve compliance with the maximum 79.853 MMBTU/hr (HHV) average Ozone Season firing rate. The average Ozone Season firing rate for each boiler shall be calculated by dividing the total Ozone Season heat input by the total actual operating hours of the boiler during the Ozone Season;
  - f. Recording the daily average firing rate for each boiler in MMBTU/hr to achieve a 90% minimum data availability during the actual operating hours for the Ozone Season
  - g. Implementing procedures to operate each boiler (excluding startup and shutdown) within the oxygen conditions established during the compliance run of September 15 - 16, 2003, and incorporating approved NOx compliance plan changes to allow for an average ozone season firing rate limit of 79.853 and oxygen levels from 2.08 - 7.19 vol % dry.
  - h. Reporting required monitoring as specified by 40 CFR Part 70 General Condition K of this permit (required every March 31st), clearly identifying all instances of deviations from permit requirements, certified by a responsible company official
- . [LAC 33:III.222]
- 170 Discharges of odorous substances at or beyond property lines which cause a perceived odor intensity of six or greater on the specified eight point butanol scale as determined by Method 41 of LAC 33:III.2901.D are prohibited. [LAC 33:III.2901.D]
- 171 If requested to monitor for odor intensity, take and transport samples in a manner which minimizes alteration of the samples either by contamination or loss of material. Evaluate all samples as soon after collection as possible in accordance with the procedures set forth in LAC 33:III.2901.G. [LAC 33:III.2901.F]
- 172 Submit permit application: Due prior to construction, reconstruction or modification unless otherwise provided in LAC 33:III.Chapter 5. Submit a timely and complete permit application to the Office of Environmental Services, Air Permits Division, as required in accordance with the procedures in LAC 33:III.Chapter 5. [LAC 33:III.501.C.1]
- 173 Maintain, to the extent practicable, a leak-free facility taking such steps as are necessary and reasonable to prevent leaks and to expeditiously repair leaks that occur. Update the written plan presently required by LAC 33:III.2113.A.4 within 30 days of receipt of this permit to incorporate these general duty obligations into the housekeeping procedures. The plan shall then be considered a means of emission control subject to the required use and maintenance provisions of LAC 33:III.905. Failure to develop, use, and diligently maintain the plan shall be a violation of this permit. (State Only). [LAC 33:III.501.C.6]
- 174 Carbon monoxide <= 3.32 tons/yr. [LAC 33:III.501.C.6]
- Which Months: All Year Statistical Basis: Annual maximum
- 175 Nitrogen oxides <= 115.84 tons/yr. [LAC 33:III.501.C.6]
- Which Months: All Year Statistical Basis: Annual maximum
- 176 Particulate matter (10 microns or less) <= 13.92 tons/yr. [LAC 33:III.501.C.6]
- Which Months: All Year Statistical Basis: Annual maximum
- 177 Sulfur dioxide <= 0.48 tons/yr. [LAC 33:III.501.C.6]
- Which Months: All Year Statistical Basis: Annual maximum
- 178 VOC, Total <= 64.70 tons/yr. [LAC 33:III.501.C.6]
- Which Months: All Year Statistical Basis: Annual maximum
- 179 Acetaldehyde <= 0.21 tons/yr. [LAC 33:III.501.C.6]
- Which Months: All Year Statistical Basis: Annual maximum
- 180 Ammonia <= 9.87 tons/yr. [LAC 33:III.501.C.6]
- Which Months: All Year Statistical Basis: Annual maximum

## SPECIFIC REQUIREMENTS

AI ID: 3263 - Air Products & Chemicals - St Gabriel Plant

Activity Number: PER20020001

Permit Number: 1280-00031-V2

Air - Title V Regular Permit Renewal

### GRP006      Entire Facility

181 Chlorine <= 0.014 tons/yr. [LAC 33:III.501.C.6]

Which Months: All Year Statistical Basis: Annual maximum

182 Ethylene glycol <= 0.70 tons/yr. [LAC 33:III.501.C.6]

Which Months: All Year Statistical Basis: Annual maximum

183 Ethylene oxide < 0.01 tons/yr. [LAC 33:III.501.C.6]

Which Months: All Year Statistical Basis: Annual maximum

184 Sulfuric acid <= 0.001 tons/yr. [LAC 33:III.501.C.6]

Which Months: All Year Statistical Basis: Annual maximum

185 Triethyl amine <= 3.97 tons/yr. [LAC 33:III.501.C.6]

Which Months: All Year Statistical Basis: Annual maximum

186 Where recordkeeping requirements apply, electronic recordkeeping shall be an acceptable means of complying with these requirements. [LAC 33:III.501.C.6]

187 Fugitive emission piping components may be added to or removed from the permitted units, without triggering the need to apply for a permit modification, provided:

- a) Changes in components involve routine maintenance or are undertaken to address safety concerns, or involve small piping revisions with no associated emissions increases except from the fugitive emission components themselves;
- b) The changes do not involve any associated increase in production rate or capacity, or tie in of new or modified process equipment other than the piping of the components;
- c) Actual emission following the changes will not exceed the emission limits contained in this permit;
- d) The components are promptly incorporated into any applicable leak detection and repair program.

. [LAC 33:III.501.C.6]

188 Any major source as defined in LAC 33:III.502 is designated a Part 70 source and is required to obtain a permit which will meet the requirements of LAC 33:III.507. [LAC 33:III.507.A.1.a]

189 No Part 70 source may operate after the time that the owner or operator of such source is required to submit a permit application under Subsection C of this Section, unless an application has been submitted by the submittal deadline and such application provides information addressing all applicable sections of the application form and has been certified as complete in accordance with LAC 33:III.517.B.1. No Part 70 source may operate after the deadline provided for supplying additional information requested by the permitting authority under LAC 33:III.519, unless such additional information has been submitted within the time specified by the permitting authority. Permits issued to the Part 70 source under this Section shall include the elements required by 40 CFR 70.6. The Louisiana Department of Environmental Quality hereby adopts and incorporates by reference the provisions of 40 CFR 70.6(a), as in effect on July 21, 1992. Upon issuance of the permit, the Part 70 source shall be operated in compliance with all terms and conditions of the permit. Noncompliance with any federally applicable term or condition of the permit shall constitute a violation of the Clean Air Act and shall be grounds for enforcement action, for permit termination, revocation and reissuance, or revision; or for denial of a permit renewal application. [LAC 33:III.507.B.2]

190 Any permit application to renew an existing permit shall be submitted at least six months prior to the date of permit expiration, or at such earlier time as may be required by the existing permit or approved by the permitting authority. In no event shall the application for permit renewal be submitted more than 18 months before the date of permit expiration. [LAC 33:III.507.E.4]

191 Submit permit application: Due prior to commencement of construction, reconstruction, or modification of the source, for new or modified sources. Do not commence construction, reconstruction, or modification of any source required to be permitted under LAC 33:III.Chapter 5 prior to approval by the permitting authority. [LAC 33:III.517.A.1]

192 Activate the preplanned abatement strategy listed in LAC 33:III.5611.Table 5 when the administrative authority declares an Air Pollution Alert. [LAC 33:III.5609.A.1.b]

193 Activate the preplanned strategy listed in LAC 33:III.5611.Table 6 when the administrative authority declares an Air Pollution Warning. [LAC 33:III.5609.A.2.b]

194 Activate the preplanned abatement strategy listed in LAC 33:III.5611.Table 7 when the administrative authority declares an Air Pollution Emergency. [LAC 33:III.5609.A.3.b]

## SPECIFIC REQUIREMENTS

AI ID: 3263 - Air Products & Chemicals - St Gabriel Plant  
Activity Number: PER20020001  
Permit Number: 1280-00031-V2  
Air - Title V Regular Permit Renewal

### **GRP006    Entire Facility**

- 195 Prepare standby plans for the reduction of emissions during periods of Air Pollution Alert, Air Pollution Warning and Air Pollution Emergency. Design standby plans to reduce or eliminate emissions in accordance with the objectives as set forth in LAC 33:III.5611. Tables 5, 6, and 7. [LAC 33:III.5609.A]
- 196 Submit standby plan for the reduction or elimination of emissions during an Air Pollution Alert, Air Pollution Warning, or Air Pollution Emergency: Due within 30 days after requested by the administrative authority. [LAC 33:III.5611.A]
- 197 During an Air Pollution Alert, Air Pollution Warning or Air Pollution Emergency, make the standby plan available on the premises to any person authorized by the department to enforce these regulations. [LAC 33:III.5611.B]
- 198 Comply with the provisions in 40 CFR 68, except as specified in LAC 33:III.5901. [LAC 33:III.5901.A]
- 199 Identify hazards that may result from accidental releases of the substances listed in 40 CFR 68.130, Table 59.0 of LAC 33:III.5907, or Table 59.1 of LAC 33:III.5913 using appropriate hazard assessment techniques, design and maintain a safe facility, and minimize the off-site consequences of accidental releases of such substances that do occur. [LAC 33:III.5907]
- 200 Submit amended registration: Due to the Department of Environmental Quality, Office of Environmental Compliance, Emergency and Radiological Services Division, within 60 days after the information in the submitted registration is no longer accurate. [LAC 33:III.5911.C]
- 201 Submit Emission Inventory (EI)/Annual Emissions Statement: Due annually, by the 31st of March for the period January 1 to December 31 of the previous year unless otherwise directed. Submit emission inventory data in the format specified by the Office of Environmental Assessment, Air Quality Assessment Division. Include all data applicable to the emissions source(s), as specified in LAC 33:III.919.A-D. [LAC 33:III.919.D]
- 202 Report the unauthorized discharge of any air pollutant into the atmosphere in accordance with LAC 33:1.Chapter 39, Notification Regulations and Procedures for Unauthorized Discharges. Submit written reports to the department pursuant to LAC 33:1.3925. Submit timely and appropriate follow-up reports detailing methods and procedures to be used to prevent similar atmospheric releases. [LAC 33:III.927]
- 203 All affected facilities shall comply with all applicable provisions in 40 CFR 60 Subpart A. [40 CFR 60]
- 204 Equipment/operational data recordkeeping by electronic or hard copy continuously. Document that the nearest public receptor is beyond the distance to a toxic or flammable endpoint defined in 68.22. [40 CFR 68.12(b)(1)]
- 205 Equipment/operational data recordkeeping by electronic or hard copy continuously. Maintain the records specified in 68.39(a) through (e) on the offsite consequence analyses. [40 CFR 68.39]
- 206 All affected facilities shall comply with all applicable provisions in 40 CFR 68. [40 CFR 68]
- 207 Submit Title V permit application for renewal: Due 180 calendar days before permit expiration date. [40 CFR 70.5(a)(1)(iii)]
- 208 Submit Title V monitoring results report: Due semiannually, by March 31st and September 30th for the preceding periods encompassing July through December and January through June, respectively. Submit reports to the Office of Environmental Compliance, Surveillance Division. Certify reports by a responsible company official. Clearly identify all instances of deviations from permitted monitoring requirements. For previously reported deviations, in lieu of attaching the individual deviation reports, clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. [40 CFR 70.6(a)(3)(iii)(A)]
- 209 Submit Title V excess emissions report: Due quarterly, by June 30, September 30, December 31, March 31. Submit reports of all permit deviations to the Office of Environmental Compliance, Surveillance Division. Certify all reports by a responsible official in accordance with 40 CFR 70.5(d). The reports submitted on March 31 and September 30 may be consolidated with the semi-annual reports required by 40 CFR 70.6(a)(3)(iii)(A) as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. [40 CFR 70.6(a)(3)(iii)(B)]
- 210 Submit Title V compliance certification: Due annually, by the 31st of March. Submit to the Office of Environmental Compliance, Surveillance Division. [40 CFR 70.6(c)(5)(iv)]
- 211 Comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B. [40 CFR 82. Subpart F]

**EMISSION RATES FOR CRITERIA POLLUTANTS**

AI ID: 3263 - Air Products &amp; Chemicals - St Gabriel Plant

Activity Number: PER20020001

Permit Number: 1280-00031-V2

Air - Title V Regular Permit Renewal

**All phases**

Subject Item	SO <sub>2</sub>			NOx			CO			VOC		
	PM <sub>10</sub>	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr
EQT 003 2-76	0.68	0.76	3.00	0.05	0.06	0.24	13.22	14.70	57.92	0.38	0.42	1.66
EQT 004 2A-76	0.68	0.76	3.00	0.05	0.06	0.24	13.22	14.70	57.92	0.38	0.42	1.66
EQT 005 4-76												
EQT 006 5-76												
EQT 007 6-76												
EQT 008 8-76B												
EQT 009 8-76C												
EQT 012 8-76F												
EQT 013 8-76G												
EQT 014 8-76H												
EQT 015 8-76I												
EQT 017 9-76												
EQT 018 10-76												
EQT 019 11-76												
EQT 020 12-76												
EQT 021 14-76												
EQT 022 7-96		1.41			6.15						0.01	
EQT 023 9-96											0.01	0.05

## EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 3263 - Air Products & Chemicals - St Gabriel Plant

Activity Number: PER20020001

Permit Number: 1280-00031-V2

Air - Title V Regular Permit Renewal

### All phases

Subject Item	PM <sub>10</sub>			SO <sub>2</sub>			NOx			CO			VOC		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
ECT 026 39-86	0.41		1.77										0.002		0.01
ECT 027 40-86													1.66	2.48	7.25
ECT 028 41-86													0.17	0.39	0.76
ECT 029 42-86													0.39	0.97	1.70
ECT 030 ww-06													0.73		3.21
ECT 032 1-06													1.43		6.26
FUG 001 13-76													3.75		16.41

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals

#### Permit Phase Totals:

PM10: 13.92 tons/yr

SO2: 0.48 tons/yr

NOx: 115.84 tons/yr

CO: 3.32 tons/yr

VOC: 64.70 tons/yr

#### Emission rates Notes:

## EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 3263 - Air Products &amp; Chemicals - St Gabriel Plant

Activity Number: PER20020001

Permit Number: 1280-00031-V2

Air - Title V Regular Permit Renewal

### All phases

Acetaldehyde		Ammonia		Chlorine		Ethylene glycol		Ethylene oxide	
Subject Item	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EQT 003 2-76	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001			
EQT 004 2A-76	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001			
EQT 009 8-76C									
EQT 012 8-76F									
EQT 013 8-76G									
EQT 014 8-76H									
EQT 015 8-76I									
EQT 017 9-76	0.13	6.26	0.55						
EQT 018 10-76	0.01	0.05	0.002						
EQT 022 7-96									0.01
EQT 024 10-96									
EQT 025 20-96									0.004
EQT 026 39-96	0.002			0.01	0.001				
EQT 028 41-96	0.38	0.49	1.67						
EQT 029 42-96	0.58	0.93	2.53						
EQT 030 ww-06	0.21	0.02	0.07						
EQT 032 1-06	0.04		0.18						
FUG 001 13-76	1.10		4.81						

**EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS**

AI ID: 3263 - Air Products &amp; Chemicals - St Gabriel Plant

Activity Number: PER20020001

Permit Number: 1280-00031-V2

Air - Title V Regular Permit Renewal

**All phases**

Subject Item	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
Sulfuric acid						
EQT 003 2-76						
EQT 004 2A-76						
EQT 009 8-76C		0.18			0.80	
EQT 012 8-76F		0.05			0.24	
EQT 013 8-76G		0.05			0.24	
EQT 014 8-76H		0.05			0.24	
EQT 015 8-76I		0.05			0.24	
EQT 017 9-76		0.07	0.13		0.07	
EQT 018 10-76		0.08	4.12		0.36	
EQT 022 7-96						
EQT 024 10-96	< 0.001	< 0.001				
EQT 025 20-96	< 0.001	< 0.001				
EQT 026 39-96						
EQT 028 41-96						
EQT 029 42-96		0.01	0.02		0.04	
EQT 030 WW-06		0.001			0.004	
EQT 032 1-06						
FUG 001 13-76		0.40			1.74	

## EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 3263 - Air Products & Chemicals - St Gabriel Plant  
Activity Number: PER20020001  
Permit Number: 1280-00031-V2  
Air - Title V Regular Permit Renewal

### All phases

Note: Emission rates in **bold** are from alternate scenarios and are not included in permitted totals

#### Permit Parameter Totals:

Acetadehyde: 0.21 tons/yr  
Ammonia: 9.87 tons/yr  
**Chlorine: 0.014 tons/yr**  
Ethylene glycol: 0.70 tons/yr  
Ethylene oxide: <0.01 tons/yr  
Sulfuric acid: 0.001 tons/yr  
Triethyl amine: 3.97 tons/yr

#### Emission Rates Notes: